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ABSTRACT

A summary of data gathered from the National Research Council's Survey of Earned Doctorates during the academic year 1977-78 is presented. The data are gathered from questionnaire forms filled out by graduates as they complete requirements for their doctoral degrees. Among findings are that the total number of doctorates awarded was 30,850 (a 2.7 percent decrease from 1977); that the number of men doctorates decreased 5.5 percent while the proportion of women continued to increase reaching an all-time high of 26.9 percent for 1978. Other findings indicated that the proportion of women doctorates who had firm commitments for employment in the physical sciences, mathematics, and engineering increased from 36 percent in 1977 to 46 percent in 1978; and the number of individuals with Hispanic, Asian, Black, and American Indian background earning doctorates increased from 1977 to 1978. Also noted was the fact that the employment plans of doctorates from science and engineering departments rated distinguished showed a marked shift from academic to nonacademic employment from 1971 to 1978. The proportion of doctorate recipients from distinguished departments in humanities who had firm commitments for academic employment decreased during the period 1971-78. There was no compensating increase in the proportion with firm plans for nonacademic employment, and there was also an increase in those with no firm commitment for postgraduate study or employment.
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Summary Report 1978 DOCTORATE RECIPIENTS FROM UNITED STATES UNIVERSITIES

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HIGHLIGHTS

- The total number of doctorates awarded was 30,850, a 2.7% decrease from the 31,713 doctorates awarded in 1977.

- From 1977 to 1978, the number of men doctorates decreased by 5.5% to 22,537. All broad fields except the professional fields showed a decrease.

- The proportion of doctorates granted to women continued to increase reaching an all-time high of 26.9% in 1978.

- Although the total number of doctorates in 1978 was approximately the same as in 1971, the number of women doctorates increased 80.9% from 4,596 to 8,313.

- The proportion of women doctorates in the physical sciences, mathematics and engineering who had firm commitments for employment at the time of doctorate increased from 36.0% in 1977 to 46.0% in 1978.

- The number of doctorates reporting their racial/ethnic background as Hispanic or Asian increased from 1977 to 1978, an increase of 16.9% for Hispanics and an increase of 15.6% for Asians, while the number reporting Black or American Indian background decreased 4.7% and 20.9% respectively.[1]

- Of the 26,529 doctorate recipients in 1978 who were U.S. citizens or non-U.S. citizens with permanent visas, 10.7% reported nonwhite racial/ethnic backgrounds. This group includes 1,100 Blacks, 1,031 Asians, 532 Hispanics and 172 American Indians.

- Employment plans of doctorates from science and engineering departments rated as distinguished by Roose-Andersen showed a marked shift from academic to nonacademic employment from 1971 to 1978.

- The proportion of doctorate recipients from distinguished departments in humanities fields who had a firm commitment for academic employment decreased during the period 1971-1978. There was no compensating increase in the proportion with firm plans for nonacademic employment but there was an increase in the proportion with no firm commitment for postgraduation study or employment.

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[1] Data for 1977 given in Summary Report 1977: Doctorate Recipients from United States Universities, pp. 28-29, National Research Council, Washington, D.C., 1978.

Summary Report 1978 DOCTORATE RECIPIENTS FROM UNITED STATES UNIVERSITIES

The Survey of Earned Doctorates is
conducted by the
National Research Council for the
National Science Foundation,
the U.S. Office of Education,
the National Institutes of Health, and
the National Endowment for the Humanities

Dorothy M. Gilford
Project Director

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Commission on Human Resources
NATIONAL RESEARCH COUNCIL

NATIONAL ACADEMY OF SCIENCES
March 1979

FOREWORD

This report presents a brief summary of data gathered from the Survey of Earned Doctorates during the academic year 1977-78. The survey is conducted annually by the Commission on Human Resources (CHR) of the National Research Council. Questionnaire forms, distributed with the cooperation of the Graduate Deans, are filled out by the graduates as they complete all requirements for their doctoral degrees. The data in this report refer to doctorates earned during the period July 1, 1977 to June 30, 1978 (FY 1978), but they do not include professional degrees such as the M.D., D.D.S., D.M.D., O.D., D.O., D.V.M. or J.D. They do, however, include both research and applied research doctorates with degrees such as the D.Sc.V.M., S.J.D., D.L.S., Th.D. and Ed.D. A full list of titles of degrees included is shown on the inside back cover.

This is the twelfth in a series of yearly summaries of data from the Survey of Earned Doctorates, a series that began in 1967. The CHR publishes data gathered during a given fiscal year in the following fiscal year. Trend data from earlier periods can be found in the book *A Century of Doctorates* (National Academy of Sciences, 1978).

The distribution of the Survey of Earned Doctorates questionnaire, the maintenance of the resulting data file and the publication of this report are supported jointly by the National Science Foundation, the United States Office of Education, the National Institutes of Health and the National Endowment for the Humanities. The CHR wishes to express its appreciation to these agencies for their assistance.

The Survey of Earned Doctorates is under the administrative supervision of Dorothy M. Gilford. Peter Syverson and Muriel Quinones had continuing responsibility for the development of the summary statistics and the graphics in the report. Charles Dickens of the National Science Foundation, Donald Bigelow of the U.S. Office of Education, William Copeland of the National Institutes of Health and Stanley Turesky of the National Endowment for the Humanities have provided constructive advice in the design and analysis of the survey, a contribution that increases its relevance to national policy issues. Mario Molina and Cleveland Dennard served as lead reviewers for the report and William Bevan, Lloyd Humphreys and Roy Radner, all members of the Commission on Human Resources, also provided valuable assistance in review of the report. Special appreciation also goes to Doris Rogowski who supervised the coding and editing of the data, to Joseph Finan and George Boyce who were responsible for the computer programming and processing and to Merle Morgan for her meticulous care in typing the report.

The CHR is concerned with those activities of the National Research Council that contribute to the more effective development and utilization of the nation's human resources. Its programs seek to strengthen higher education and to develop better understanding of the educational process. It is hoped that prompt reporting of the present data to educational, governmental and professional agencies will facilitate planning in higher education. Suggestions for improvement of the content or format of the report and questions or comments will be welcomed. Such communications may be directed to the Commission on Human Resources, National Research Council, 2101 Constitution Avenue, Washington, D.C. 20418.

Dorothy M. Gilford
Director, Human Resources Studies

NOTICE: This report is based on research conducted by the National Research Council with the support of the National Science Foundation, the U.S. Office of Education, the National Institutes of Health and the National Endowment for the Humanities under Contract No. NSF-C310, Task Order 82. Any opinions, findings and conclusions or recommendations expressed in this publication are those of the authors and do not necessarily reflect the views of the sponsoring agencies.

INTRODUCTION

The total number of doctorate recipients in 1978 was 30,850. This number constitutes a decrease of 2.7% from the 31,713 doctorates awarded in 1977 and a decrease of 8.6% from the peak year, 1973. Selected statistics from the 1978 Survey of Earned Doctorates and trends on doctorate recipients based on the Doctorate Records File are highlighted in this report. These highlights include data on trends in U.S. doctorate recipients by major field and sex and in the postgraduation plans of doctorate recipients from departments rated as distinguished in the Roose-Andersen study.[2] The data on postgraduation plans were chosen for presentation because of current concern with the apparent decline in employment opportunities for doctorate recipients. The Summary Report for 1977 Doctorate Recipients highlighted trends in the number of doctorate recipients by sex, by field, by Carnegie category of doctorate-granting institution and by Roose-Andersen rating of graduate department. Trend data on postgraduation plans of doctorate recipients, with emphasis on those still seeking employment or postdoctoral study, and data on field switching from baccalaureate field to field of doctorate and from field of doctorate to field of first planned postdoctoral employment were highlighted in the 1976 Summary Report.

PROPORTION OF WOMEN PH.D.'S CONTINUES TO INCREASE

The proportion of doctorates granted to women increased from 24.8% of the total in 1977 to 26.9% in 1978, continuing a trend that began in 1965 when 10.5% of the doctorate recipients were women. The number of doctorates granted to women has increased each year since 1965. While the total number of doctorates granted in 1978 was about the same as in 1971, the number of doctorates granted to women increased by 80.9% between 1971 and 1978 (Text Table A).

Figure 1 and Text Table A show that the number of women doctorate recipients increased from 1977 to 1978 in all broad fields except engineering and the humanities. The largest percentage increase was in the life sciences (13.1%) while the largest increase in number was in education (268). Over the past decade, education has been the field with the

TEXT TABLE A
Number of United States Doctorates by Broad Field and Sex, 1968-1978

Year	Total	Physical Sciences	Engineering	Life Sciences	Social Sciences	Humanities	Prof. Fields	Education
				MEN				
1968	20,007	4,409	2,836	3,188	2,939	2,491	845	3,224
1969	22,357	4,722	3,241	3,559	3,303	2,728	889	3,746
1970	25,529	5,307	3,418	3,989	3,827	3,095	1,072	4,671
1971	27,276	5,398	3,485	4,357	4,254	3,313	1,262	5,085
1972	27,757	5,169	3,481	4,214	4,553	3,434	1,335	5,437
1973	27,671	4,927	3,316	4,136	4,688	3,815	1,258	5,455
1974	26,593	4,588	3,114	3,965	4,725	3,593	1,226	5,301
1975	25,752	4,454	2,950	3,956	4,710	3,360	1,243	5,063
1976	25,261	4,089	2,779	3,920	4,856	3,207	1,189	5,186
1977	23,855	3,948	2,568	3,812	4,688	2,902	1,041	4,870
1978	22,537	3,753	2,370	3,805	4,502	2,637	1,124	4,338
				WOMEN				
1968	2,931	232	12	510	552	719	101	801
1969	3,389	262	10	568	662	838	126	903
1970	3,971	320	15	588	737	972	143	1,186
1971	4,596	341	15	715	919	1,063	176	1,346
1972	5,287	367	22	731	1,050	1,272	183	1,646
1973	6,085	381	46	868	1,245	1,546	201	1,782
1974	6,455	385	33	867	1,446	1,576	194	1,939
1975	7,201	403	52	950	1,600	1,686	208	2,295
1976	7,684	420	54	959	1,734	1,673	290	2,540
1977	7,858	430	74	957	1,936	1,660	308	2,584
1978	8,313	440	53	1,082	1,951	1,598	330	2,852

[2] Roose, Kenneth D. and Charles J. Andersen, A Rating of Graduate Programs, American Council on Education, Washington, D.C., 1970.

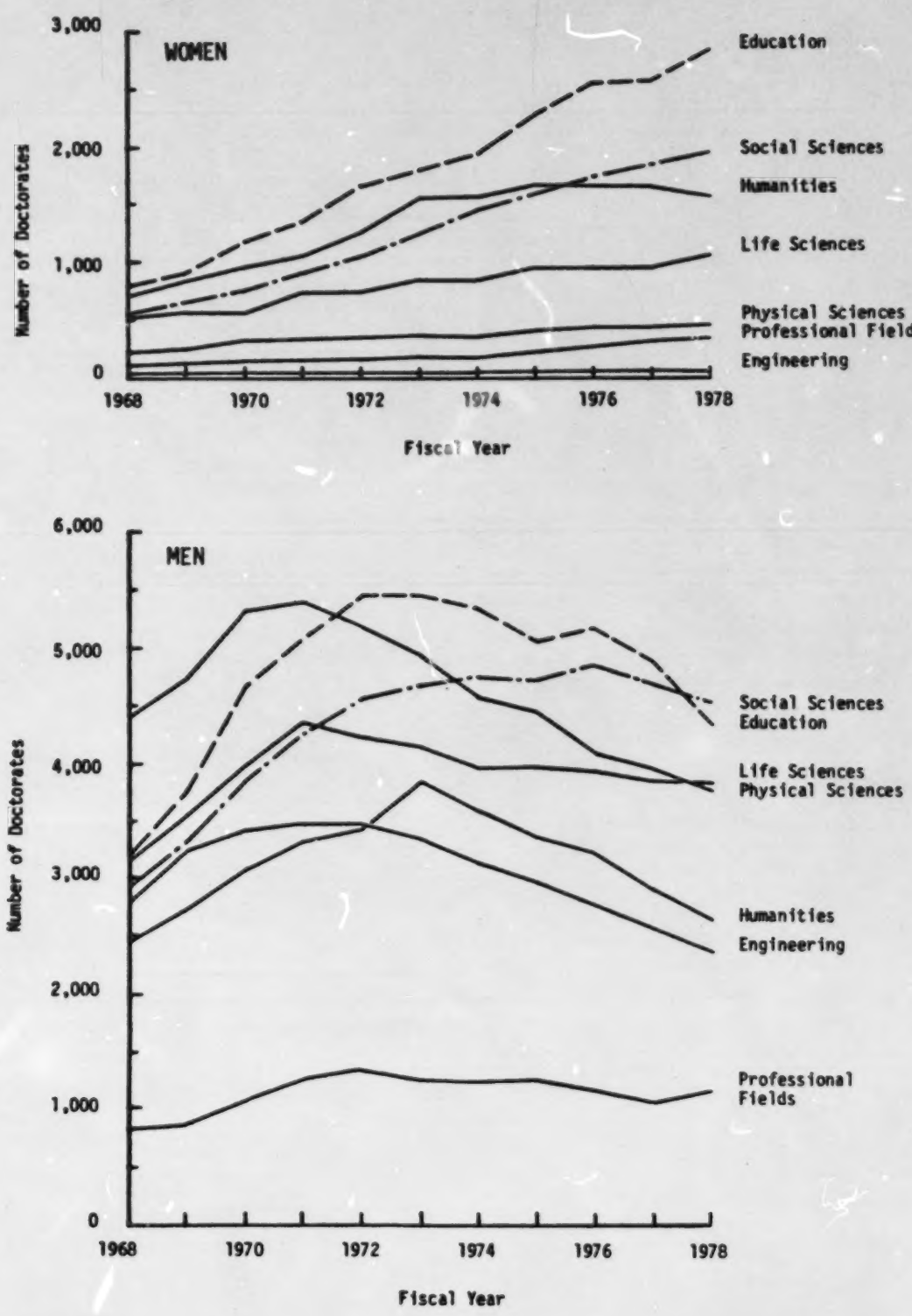

FIGURE 1
Number of United States Doctorates by Broad Field and Sex, 1968-1978

largest number of women Ph.D.'s. The proportion of women receiving Ph.D.'s in education has increased from 27.3% of all women Ph.D.'s in 1968 to 34.3% in 1978.

From 1977 to 1978, the number of men doctorates decreased by 5.5% to 22,537. This overall decline was reflected in decreases in all broad fields except the professional fields which increased by 7.9%. Education and the humanities showed the sharpest decreases (10.9% and 9.1% respectively), while the number of doctorate recipients in the life sciences dropped by only 0.2%. The social sciences replaced education as the field with the largest number of men doctorates.

During the past decade there has been a marked change in the distribution of men doctorates among fields. The physical sciences, which was the field with the largest number of doctorates, is now the fourth largest; social sciences which was the fourth largest is now the largest; and the engineering and humanities fields, which ranked fifth and sixth largest respectively, have interchanged ranks. Education and the life sciences, though shifting their relative importance during the decade, retained their positions at the beginning and end of the decade as second and third.

POSTDOCTORAL PLANS OF PH.D.'s FROM DISTINGUISHED DEPARTMENTS

Because of the current concern with apparent decreases in postgraduation opportunities for doctorate recipients, data on the postdoctoral plans of doctorate recipients from departments rated as distinguished (4.00-5.00) by the Roose-Andersen study are presented in Text Table B. Only doctorate recipients who are U.S. citizens or non-U.S. citizens with permanent visas are included in the table.

It is recognized that individuals planning postdoctoral study[3] tend to select mentors rather than institutions. The Roose-Andersen rating for a department is not an exact measure of the quality of the mentor of the postdoctoral. It is, however, the only surrogate variable for which data are available and for this reason data are presented on postdoctorals by Roose-Andersen rating of department of postdoctoral study.

The disciplines shown in Table B were selected from among the disciplines with the most graduates from distinguished departments from 1971 to 1978. The disciplines were selected to provide as wide a spread of fields as possible within the space limitations--which also precluded all but the most general explanatory text. A summary of the major trends follows.

Science and Engineering

The recent trend for decreases in the number of doctorates granted in science and engineering in the United States is paralleled by decreases in the number of Ph.D.'s from distinguished departments. In nearly all of these disciplines, there has been a marked shift in employment plans from academic to nonacademic employment for the doctorate recipients from distinguished departments. Comparable decreases in firm commitments for academic employment are found for doctorates from lesser-rated departments and for the total of all departments including those not rated by the Roose-Andersen study. Tabulations for these groups of departments are available from the Commission on Human Resources

The trend in number of doctorates from distinguished departments with plans for postdoctoral study varies by field. This can be seen by comparing three-year averages for 1971-73 and 1976-78. Mathematics shows an increase from 13 to 20 postdoctorals which, although small, is important in light of the decrease in the total number of Ph.D.'s from distinguished departments in this field; decreases are found for physics (from 129 to 92) and chemistry (from 146 to 118) while psychology and political science show no change with 3-year averages of 24 and 5 respectively at both the beginning and at the end of the period 1971-78.

The proportion of mathematics Ph.D.'s from distinguished departments who have firm commitments for postdoctoral study has increased from 4.3% to 13.4% during the period 1971-78. In physics and chemistry, the percentage choosing postdoctoral study has remained almost constant at about 45%. During the eight-year period, an average of 20.7% of geologists have chosen postdoctoral study, although there have been marked fluctuations with some evidence of a

[3] Throughout this report, the term postdoctoral study is defined as including not only fellowships, but also postdoctoral research associateships and traineeships. Postdoctoral appointments abroad and postdoctoral appointments in industry and government are included in the data.

TEXT TABLE B
POSTGRADUATION PLANS OF PH.D.'S (U.S. CITIZENS AND NON-U.S. CITIZENS WITH PERMANENT VISAS) FROM DISTINGUISHED DEPARTMENTS (ROOSE-ANDERSEN RATING) BY YEAR OF PH.D. AND ROOSE-ANDERSEN RATING OF DEPARTMENT OF POSTGRADUATION ACTIVITY, 1971-1978

PHD FIELD - MATHEMATICS

POSTGRADUATION PLANS AND ROOSE-ANDERSEN RATING OF DEPARTMENT OF POSTGRADUATION ACTIVITY		FISCAL YEAR OF DOCTORATE 1971	1972	1973	1974	1975	1976	1977	1978	TOTAL 1971-1978
DEFINITE POSTDOCTORAL STUDY										
DISTINGUISHED R-A[1]		1	3	7		1	5	5	8	30
	V[2]	.5	1.4	3.4		.5	2.8	2.9	4.9	2.0
STRONG R-A[3]		1	2	2	1	1	1	1	3	12
	V	.5	.9	1.0	.6	.5	.6	.6	1.8	.8
OTHER RATED R-A[4]		1	2	1		2	2	1	3	12
	V	.5	.9	.5		.9	1.1	.6	1.8	.8
NOT RATED R-A		3	6	3	6	9	6	11	6	50
	V	1.4	2.8	1.5	3.3	4.1	3.3	6.4	3.7	3.3
FOREIGN INSTITUTION		2	2	2	1	4	3	1	1	16
	V	1.0	.9	1.0	.6	1.8	1.7	.6	.6	1.0
NON-ACADEMIC					1					1
	V				.6					.1
TOTAL[5]		9	15	16	9	17	17	20	22	125
	V	4.3	7.1	7.8	5.0	7.8	9.4	11.6	13.4	8.1
DEFINITE ACADEMIC EMPLOYMENT										
DISTINGUISHED R-A		[6]	24	16	12	20	10	17	9	[6]
	V		11.4	7.8	6.7	9.2	5.6	9.9	5.5	
STRONG R-A		[6]	18	14	13	13	13	12	8	[6]
	V		8.5	6.8	7.2	6.0	7.2	7.0	4.9	
OTHER RATED R-A		[6]	22	17	20	16	24	18	15	[6]
	V		10.4	8.3	11.1	7.4	13.3	10.5	9.1	
NOT RATED R-A[7]		[6]	50	60	45	61	44	37	40	[6]
	V		23.7	29.3	25.0	28.1	24.4	21.5	24.4	
TOTAL[5]		121	117	110	91	112	92	86	75	804
	V	57.9	55.5	53.7	50.6	51.6	51.1	50.0	45.7	52.3
OTHER DEFINITE EMPLOYMENT[8]		24	31	30	24	32	24	25	32	222
	V	11.5	14.7	14.6	13.3	14.7	13.3	14.5	19.5	14.4
NO FIRM COMMITMENT		55	48	49	56	56	47	41	35	387
	V	26.3	22.7	23.9	31.1	25.8	26.1	23.8	21.3	25.2
TOTAL PHDS FROM DISTINGUISHED DEPARTMENTS		209	211	205	180	217	180	172	164	1538

1/ Roose-Andersen rating of 4.00 or higher.
2/ V provides vertical percentages within columns based on total Ph.D.'s from distinguished departments.
3/ Roose-Andersen rating of 3.00 to 3.99.
4/ Roose-Andersen rating of 2.99 or less.
5/ Includes Ph.D.'s with definite postgraduation plans at an unknown academic institution.
6/ Comparable data not available because two forms were in use in 1971, one of which requested type but not name of employer.
7/ The number of Ph.D.'s with definite employment plans at a foreign academic institution is very small and therefore has been included in the "not rated" category.
8/ Includes employment in all areas other than postsecondary academic institutions.

TEXT TABLE B. CONTINUED

PHD FIELD - PHYSICS

POSTGRADUATION PLANS AND ROOSE-ANDERSEN RATING OF DEPARTMENT OF POSTGRADUATION ACTIVITY		FISCAL YEAR OF DOCTORATE 1971	1972	1973	1974	1975	1976	1977	1978	TOTAL 1971-1978
DEFINITE POSTDOCTORAL STUDY										
DISTINGUISHED R-A [1]	[2]	42	38	41	32	29	24	19	28	253
	V	13.2	14.0	15.6	15.5	14.0	11.8	9.9	13.7	13.6
STRONG R-A [3]		17	11	14	8	8	21	10	17	106
	V	5.3	4.1	5.3	3.9	3.9	10.3	5.2	8.3	5.7
OTHER RATED R-A [4]		17	15	10	14	7	6	9	4	82
	V	5.3	5.5	3.8	6.8	3.4	2.9	4.7	2.0	4.4
NOT RATED R-A		44	39	49	23	39	37	32	43	306
	V	13.8	14.4	18.6	11.2	18.8	18.1	16.8	21.1	16.4
FOREIGN INSTITUTION		14	16	9	12	5	5	11	5	77
	V	4.4	5.9	3.4	5.8	2.4	2.5	5.8	2.5	4.1
NON-ACADEMIC		3	3	2	7	1				16
	V	.9	1.1	.8	3.4	.5				.9
TOTAL [5]		138	122	127	97	89	94	81	100	848
	V	43.4	45.0	48.3	47.1	43.0	46.1	42.4	49.0	45.5
DEFINITE ACADEMIC EMPLOYMENT										
DISTINGUISHED R-A		[6]	6	7	4	2	3	8	2	[6]
	V		2.2	2.7	1.9	1.0	1.5	4.2	1.0	
STRONG R-A		[6]	3	2			3	1	4	[6]
	V		1.1	.8			1.5	.5	2.0	
OTHER RATED R-A		[6]	4	1	6			1		[6]
	V		1.5	.4	2.9			.5		
NOT RATED R-A [7]		[6]	18	16	6	10	6	6	7	[6]
	V		6.6	6.1	2.9	4.8	2.9	3.1	3.4	
TOTAL [5]		40	37	26	16	12	12	16	13	172
	V	12.6	13.7	9.9	7.8	5.8	5.9	8.4	6.4	9.2
OTHER DEFINITE EMPLOYMENT [8]		51	59	54	48	49	47	39	50	397
	V	16.0	21.8	20.5	23.3	23.7	23.0	20.4	24.5	21.3
NO FIRM COMMITMENT		89	53	56	45	57	51	55	41	447
	V	28.0	19.6	21.3	21.8	27.5	25.0	28.8	20.1	24.0
TOTAL PHDS FROM DISTINGUISHED DEPARTMENTS		318	271	263	206	207	204	191	204	1864

TEXT TABLE B. CONTINUED

PHD FIELD - CHEMISTRY

POSTGRADUATION PLANS AND ROOSE-ANDERSEN RATING OF DEPARTMENT OF POSTGRADUATION ACTIVITY		FISCAL YEAR OF DOCTORATE 1971	1972	1973	1974	1975	1976	1977	1978	TOTAL 1971-1978
DEFINITE POSTDOCTORAL STUDY										
DISTINGUISHED R-A [1]	[2]	56	51	31	48	24	46	39	30	325
	V	17.0	17.6	11.7	16.1	8.6	16.5	16.0	11.6	14.5
STRONG R-A [3]		22	21	25	27	14	23	18	18	168
	V	6.7	7.2	9.4	9.1	5.0	8.3	7.4	6.9	7.5
OTHER RATED R-A [4]		22	23	13	13	10	9	11	12	113
	V	6.7	7.9	4.9	4.4	3.6	3.2	4.5	4.6	5.0
NOT RATED R-A		30	48	38	23	46	46	31	44	306
	V	9.1	16.6	14.3	7.7	16.4	16.5	12.7	17.0	13.6
FOREIGN INSTITUTION		24	21	8	11	10	10	4	8	96
	V	7.3	7.2	3.0	3.7	3.6	3.6	1.6	3.1	4.3
NON-ACADEMIC			1	2	2	2	1			8
	V		.3	.8	.7	.7	.4			.4
TOTAL [5]		154	166	118	128	109	136	104	113	1028
	V	46.7	57.2	44.5	43.0	38.9	48.9	42.6	43.6	45.8
DEFINITE ACADEMIC EMPLOYMENT										
DISTINGUISHED R-A		[6]	5	5	5	3	5	4	6	[6]
	V		1.7	1.9	1.7	1.1	1.8	1.6	2.3	
STRONG R-A		[6]	5	2	2	2		1	1	[6]
	V		1.7	.8	.7	.7		.4	.4	
OTHER RATED R-A		[6]	4	4	5	2	2	2	4	[6]
	V		1.4	1.5	1.7	.7	.7	.8	1.5	
NOT RATED R-A [7]		[6]	19	22	14	19	13	16	5	[6]
	V		6.6	8.3	4.7	6.8	4.7	6.6	1.9	
TOTAL [5]		43	35	35	26	26	20	23	16	224
	V	13.0	12.1	13.2	8.7	9.3	7.2	9.4	6.2	10.0
OTHER DEFINITE EMPLOYMENT [8]		64	45	52	79	85	64	78	85	552
	V	19.4	15.5	19.6	26.5	30.4	23.0	32.0	32.8	24.6
NO FIRM COMMITMENT		69	44	60	65	60	58	39	45	440
	V	20.9	15.2	22.6	21.8	21.4	20.9	16.0	17.4	19.6
TOTAL PHDS FROM DISTINGUISHED DEPARTMENTS		330	290	265	298	280	278	244	259	2244

TEXT TABLE B. CONTINUED

PHD FIELD - GEOLOGY

POSTGRADUATION PLANS AND ROOSE-ANDERSEN RATING OF DEPARTMENT OF POSTGRADUATION ACTIVITY		FISCAL YEAR OF DOCTORATE 1971	1972	1973	1974	1975	1976	1977	1978	TOTAL 1971-1978
DEFINITE POSTDOCTORAL STUDY										
DISTINGUISHED R-A [1]	N	3	3	3	4	1	7	7	2	30
	V [2]	7.3	6.3	7.5	11.8	2.9	13.5	10.0	3.8	8.1
STRONG R-A [3]	N		1		1			2	2	6
	V		2.1		2.9			2.9	3.8	1.6
OTHER RATED R-A [4]	N							1	1	2
	V							1.4	1.9	.5
NOT RATED R-A	N	6	2	2		5	3	11	3	32
	V	14.6	4.2	5.0		14.7	5.8	15.7	5.7	8.6
FOREIGN INSTITUTION	N	1		1					3	5
	V	2.4		2.5					5.7	1.3
NON-ACADEMIC	N								2	2
	V								3.8	.5
TOTAL [5]	N	10	6	6	5	6	10	21	13	77
	V	24.4	12.5	15.0	14.7	17.6	19.2	30.0	24.5	20.7
DEFINITE ACADEMIC EMPLOYMENT										
DISTINGUISHED R-A	N	[6]				1	1	3	3	[6]
	V					2.9	1.9	4.3	5.7	
STRONG R-A	N	[6]	2	1						[6]
	V		4.2	2.5						
OTHER RATED R-A	N	[6]	2	4	3	1	4	5		[6]
	V		4.2	10.0	8.8	2.9	7.7	7.1		
NOT RATED R-A [7]	N	[6]	15	5	7	8	6	9	7	[6]
	V		31.3	12.5	20.6	23.5	11.5	12.9	13.2	
TOTAL [5]	N	15	20	10	11	10	11	17	10	104
	V	36.6	41.7	25.0	32.4	29.4	21.2	24.3	18.9	28.0
OTHER DEFINITE EMPLOYMENT [8]	N	8	11	12	5	8	17	19	18	98
	V	19.5	22.9	30.0	14.7	23.5	32.7	27.1	34.0	26.3
NO FIRM COMMITMENT	N	8	11	12	13	10	14	13	12	93
	V	19.5	22.9	30.0	38.2	29.4	26.9	18.6	22.6	25.0
TOTAL PHDS FROM DISTINGUISHED DEPARTMENTS		41	48	40	34	34	52	70	53	372

TEXT TABLE B. CONTINUED

PHD FIELD - CHEMICAL ENGINEERING

POSTGRADUATION PLANS AND ROOSE-ANDERSEN RATING OF DEPARTMENT OF POSTGRADUATION ACTIVITY		FISCAL YEAR OF DOCTORATE 1971	1972	1973	1974	1975	1976	1977	1978	TOTAL 1971-1978
DEFINITE POSTDOCTORAL STUDY										
DISTINGUISHED R-A [1]	N	1		3	2		5	1		12
	V [2]	1.3		4.0	3.9		7.9	2.0		2.5
STRONG R-A [3]	N	1	1	2	1		1			6
	V	1.3	1.7	2.7	2.0		1.6			1.3
OTHER RATED R-A [4]	N	1				1				2
	V	1.3				1.8				.4
NOT RATED R-A	N	3	4	3	1	1	2	2	2	18
	V	3.9	6.7	4.0	2.0	1.8	3.2	4.1	4.3	3.8
FOREIGN INSTITUTION	N	3	1	2	1	2	2	1	2	14
	V	3.9	1.7	2.7	2.0	3.5	3.2	2.0	4.3	2.9
NON-ACADEMIC	N					1				1
	V					1.8				.2
TOTAL [5]	N	9	6	11	5	5	10	4	4	54
	V	11.8	10.0	14.7	9.8	8.8	15.9	8.2	8.5	11.3
DEFINITE ACADEMIC EMPLOYMENT										
DISTINGUISHED R-A	N	[6]	4		2	2				[6]
	V		6.7		3.9	3.5				
STRONG R-A	N	[6]	1	1				2	2	[6]
	V		1.7	1.3				4.1	4.3	
OTHER RATED R-A	N	[6]	2	2	2		2	2	1	[6]
	V		3.3	2.7	3.9		3.2	4.1	2.1	
NOT RATED R-A [7]	N	[6]	1	6	4		4	3	4	[6]
	V		1.7	8.0	7.8		6.3	6.1	8.5	
TOTAL [5]	N	6	8	9	8	2	6	7	7	53
	V	7.9	13.3	12.0	15.7	3.5	9.5	14.3	14.9	11.1
OTHER DEFINITE EMPLOYMENT [8]	N	44	32	42	25	44	44	32	33	296
	V	57.9	53.3	56.0	49.0	77.2	69.8	65.3	70.2	61.9
NO FIRM COMMITMENT	N	17	14	13	13	6	3	6	3	75
	V	22.4	23.3	17.3	25.5	10.5	4.8	12.2	6.4	15.7
TOTAL PHDS FROM DISTINGUISHED DEPARTMENTS		76	60	75	51	57	63	49	47	478

TEXT TABLE B. CONTINUED

PHD FIELD - ELECTRICAL ENGINEERING

POSTGRADUATION PLANS AND ROOSE-ANDERSEN RATING OF DEPARTMENT OF POSTGRADUATION ACTIVITY		FISCAL YEAR OF DOCTORATE 1971	1972	1973	1974	1975	1976	1977	1978	TOTAL 1971-1978
DEFINITE POSTDOCTORAL STUDY										
DISTINGUISHED R-A [1]		6	6	5	5	4	8	5	6	45
	V [2]	4.3	4.3	4.8	5.1	4.7	8.2	6.8	8.5	5.6
STRONG R-A [3]		1	2		1		2		2	8
	V	.7	1.4		1.0		2.1		2.8	1.0
OTHER RATED R-A [4]			1		1		1			3
	V		.7		1.0		1.0			.4
NOT RATED R-A		4	9	1	4	3	7	7	1	36
	V	2.9	6.4	1.0	4.1	3.5	7.2	9.5	1.4	4.4
FOREIGN INSTITUTION		5	2			1				8
	V	3.6	1.4			1.2				1.0
NON-ACADEMIC				2						2
	V			1.9						.2
TOTAL [5]		16	20	8	11	8	18	12	9	102
	V	11.5	14.2	7.7	11.2	9.3	18.6	16.2	12.7	12.6
DEFINITE ACADEMIC EMPLOYMENT										
DISTINGUISHED R-A		[6]	3		4	3	1		1	[6]
	V		2.1		4.1	3.5	1.0		1.4	
STRONG R-A		[6]	2	1	1	2	1			[6]
	V		1.4	1.0	1.0	2.3	1.0			
OTHER RATED R-A		[6]	2	5	2	3		2	2	[6]
	V		1.4	4.8	2.0	3.5		2.7	2.8	
NOT RATED R-A [7]		[6]	7	8	6	6	6	8	2	[6]
	V		5.0	7.7	6.1	7.0	6.2	10.8	2.8	
TOTAL [5]		18	15	14	14	14	8	10	6	99
	V	12.9	10.6	13.5	14.3	16.3	8.2	13.5	8.5	12.2
OTHER DEFINITE EMPLOYMENT [8]		55	63	54	52	41	48	35	41	389
	V	39.6	44.7	51.9	53.1	47.7	49.5	47.3	57.7	48.0
NO FIRM COMMITMENT		50	43	28	21	23	23	17	15	220
	V	36.0	30.5	26.9	21.4	26.7	23.7	23.0	21.1	27.2
TOTAL PHDS FROM DISTINGUISHED DEPARTMENTS		139	141	104	98	86	97	74	71	810

TEXT TABLE B. CONTINUED

PHD FIELD - BIOCHEMISTRY

POSTGRADUATION PLANS AND ROOSE-ANDERSEN RATING OF DEPARTMENT OF POSTGRADUATION ACTIVITY		FISCAL YEAR OF DOCTORATE 1971	1972	1973	1974	1975	1976	1977	1978	TOTAL 1971-1978
DEFINITE POSTDOCTORAL STUDY										
DISTINGUISHED R-A [1]	N	11	17	6	7	6	11	15	11	84
	V [2]	14.3	25.8	11.1	12.1	10.3	14.5	19.2	18.3	15.9
STRONG R-A [3]	N	7	7	2	5	8	4	8	7	48
	V	9.1	10.6	3.7	8.6	13.8	5.3	10.3	11.7	9.1
OTHER RATED R-A [4]	N	2		4	1	3	3	2	4	19
	V	2.6		7.4	1.7	5.2	3.9	2.6	6.7	3.6
NOT RATED R-A	N	20	19	19	18	24	34	28	24	186
	V	26.0	28.8	35.2	31.0	41.4	44.7	35.9	40.0	35.3
FOREIGN INSTITUTION	N	8	6	6	2		2	1	2	27
	V	10.4	9.1	11.1	3.4		2.6	1.3	3.3	5.1
NON-ACADEMIC	N	2	1	1	1	2		1	2	10
	V	2.6	1.5	1.9	1.7	3.4		1.3	3.3	1.9
TOTAL [5]	N	51	50	38	36	44	54	55	50	378
	V	66.2	75.8	70.4	62.1	75.9	71.1	70.5	83.3	71.7
DEFINITE ACADEMIC EMPLOYMENT										
DISTINGUISHED R-A	N	[6]	1	1	1		1			[6]
	V		1.5	1.9	1.7		1.3			
STRONG R-A	N	[6]			1					[6]
	V				1.7					
OTHER RATED R-A	N	[6]								[6]
	V									
NOT RATED R-A [7]	N	[6]		3	6	2	2	3		[6]
	V			5.6	10.3	3.4	2.6	3.8		
TOTAL [5]	N	6	2	5	8	2	3	3		29
	V	7.8	3.0	9.3	13.8	3.4	3.9	3.8		5.5
OTHER DEFINITE EMPLOYMENT [8]	N	4	1	3	1	5	3	4	1	22
	V	5.2	1.5	5.6	1.7	8.6	3.9	5.1	1.7	4.2
NO FIRM COMMITMENT	N	16	13	8	13	7	16	16	9	98
	V	20.8	19.7	14.8	22.4	12.1	21.1	20.5	15.0	18.6
TOTAL PHDS FROM DISTINGUISHED DEPARTMENTS		77	66	54	58	58	76	78	60	527

TEXT TABLE B. CONTINUED

PHD FIELD - PSYCHOLOGY

POSTGRADUATION PLANS AND ROOSE-ANDERSEN RATING OF DEPARTMENT OF POSTGRADUATION ACTIVITY		FISCAL YEAR OF DOCTORATE 1971	1972	1973	1974	1975	1976	1977	1978	TOTAL 1971-1978
DEFINITE POSTDOCTORAL STUDY										
DISTINGUISHED R-A [1]	N [2]	5	8	3	3	1	1	2	2	25
	V	2.3	4.2	1.9	1.6	.6	.5	1.2	1.3	1.7
STRONG R-A [3]	N	10	3	2	1	2		2	4	24
	V	4.5	1.6	1.2	.5	1.1		1.2	2.6	1.6
OTHER RATED R-A [4]	N	1				1	1	2	3	8
	V	.5				.6	.5	1.2	1.9	.5
NOT RATED R-A	N	15	8	9	13	17	19	17	12	110
	V	6.8	4.2	5.6	7.0	9.7	9.6	9.8	7.8	7.5
FOREIGN INSTITUTION	N	2	3	2		1	2		2	12
	V	.9	1.6	1.2		.6	1.0		1.3	.8
NON-ACADEMIC	N				1					1
	V				.5					.1
TOTAL [5]	N	33	23	16	18	22	25	24	23	184
	V	14.9	12.0	9.9	9.7	12.5	12.7	13.9	14.9	12.6
DEFINITE ACADEMIC EMPLOYMENT										
DISTINGUISHED R-A	N	[6]	12	6	7	3	12	4	3	[6]
	V		6.3	3.7	3.8	1.7	6.1	2.3	1.9	
STRONG R-A	N	[6]	11	4	9	10	9	5	8	[6]
	V		5.8	2.5	4.8	5.7	4.6	2.9	5.2	
OTHER RATED R-A	N	[6]	19	22	16	16	18	10	9	[6]
	V		9.9	13.7	8.6	9.1	9.1	5.8	5.8	
NOT RATED R-A [7]	N	[6]	56	44	54	55	41	41	30	[6]
	V		29.3	27.3	29.0	31.3	20.8	23.7	19.5	
TOTAL [5]	N	117	100	77	86	84	82	61	52	659
	V	52.7	52.4	47.8	46.2	47.7	41.6	35.3	33.8	45.1
OTHER DEFINITE EMPLOYMENT [8]	N	35	31	39	36	23	37	33	30	264
	V	15.8	16.2	24.2	19.4	13.1	18.8	19.1	19.5	18.1
NO FIRM COMMITMENT	N	37	37	29	46	47	53	55	49	353
	V	16.7	19.4	18.0	24.7	26.7	26.9	31.8	31.8	24.2
TOTAL PHDS FROM DISTINGUISHED DEPARTMENTS		222	191	161	186	176	197	173	154	1460

TEXT TABLE B. CONTINUED

PHD FIELD - ANTHROPOLOGY

POSTGRADUATION PLANS AND ROOSE-ANDERSEN RATING OF DEPARTMENT OF POSTGRADUATION ACTIVITY		FISCAL YEAR OF DOCTORATE 1971	1972	1973	1974	1975	1976	1977	1978	TOTAL 1971-1978
DEFINITE POSTDOCTORAL STUDY										
DISTINGUISHED R-A [1]	N	1		2	2	1	3	2	1	12
	V [2]	1.7		2.9	2.9	1.6	4.3	3.0	1.8	2.4
STRONG R-A [3]	N	1				1				2
	V	1.7				1.6				.4
OTHER RATED R-A [4]	N			1			1			2
	V			1.5			1.4			.4
NOT RATED R-A	N		3	2	2		3	6	4	20
	V		5.6	2.9	2.9		4.3	9.1	7.3	4.0
FOREIGN INSTITUTION	N		1			1	1	1		4
	V		1.9			1.6	1.4	1.5		.8
NON-ACADEMIC	N				1					1
	V				1.4					.2
TOTAL [5]	N	2	5	6	6	3	10	9	5	46
	V	3.4	9.3	8.8	8.7	4.8	14.5	13.6	9.1	9.2
DEFINITE ACADEMIC EMPLOYMENT										
DISTINGUISHED R-A	N	[6]			3	1			1	[6]
	V				4.3	1.6			1.8	
STRONG R-A	N	[6]	6	4	1	2	2	4	2	[6]
	V		11.1	5.9	1.4	3.2	2.9	6.1	3.6	
OTHER RATED R-A	N	[6]	4	6	6	3	3	3	3	[6]
	V		7.4	8.8	8.7	4.8	4.3	4.5	5.5	
NOT RATED R-A [7]	N	[6]	25	33	32	30	31	29	13	[6]
	V		46.3	48.5	46.4	48.4	44.9	43.9	23.6	
TOTAL [5]	N	43	39	44	43	37	38	36	20	300
	V	74.1	72.2	64.7	62.3	59.7	55.1	54.5	36.4	59.9
OTHER DEFINITE EMPLOYMENT [8]	N	1	4	3	5	5	7	4	7	36
	V	1.7	7.4	4.4	7.2	8.1	10.1	6.1	12.7	7.2
NO FIRM COMMITMENT	N	12	6	15	15	17	14	17	23	119
	V	20.7	11.1	22.1	21.7	27.4	20.3	25.8	41.8	23.8
TOTAL PHDS FROM DISTINGUISHED DEPARTMENTS		58	54	68	69	62	69	66	55	501

TEXT TABLE B. CONTINUED

PHD FIELD - SOCIOLOGY

POSTGRADUATION PLANS AND ROOSE-ANDERSEN RATING OF DEPARTMENT OF POSTGRADUATION ACTIVITY		FISCAL YEAR OF DOCTORATE								TOTAL 1971-1978
		1971	1972	1973	1974	1975	1976	1977	1978	
DEFINITE POSTDOCTORAL STUDY										
DISTINGUISHED R-A [1]	N			1	1		2	1	1	6
	V [2]			1.2	1.1		2.0	1.1	1.3	.9
STRONG R-A [3]	N		1		1			1	3	6
	V		1.3		1.1			1.1	3.8	.9
OTHER RATED R-A [4]	N				1			2		3
	V				1.1			2.1		.4
NOT RATED R-A	N	1	3	1		4	2	6	2	19
	V	1.2	3.8	1.2		4.7	2.0	6.3	2.5	2.7
FOREIGN INSTITUTION	N				2		1			3
	V				2.2		1.0			.4
NON-ACADEMIC	N									
	V									
TOTAL [5]	N	1	4	2	5	4	5	10	6	37
	V	1.2	5.1	2.3	5.6	4.7	5.1	10.5	7.5	5.3
DEFINITE ACADEMIC EMPLOYMENT										
DISTINGUISHED R-A	N	[6]	9	4	4	1	6	3	10	[6]
	V		11.5	4.7	4.5	1.2	6.1	3.2	12.5	
STRONG R-A	N	[6]	11	4	7	9	10	4	6	[6]
	V		14.1	4.7	7.9	10.6	10.1	4.2	7.5	
OTHER RATED R-A	N	[6]	9	6	10	6	12	4	7	[6]
	V		11.5	7.0	11.2	7.1	12.1	4.2	8.8	
NOT RATED R-A [7]	N	[6]	28	47	36	43	44	39	19	[6]
	V		35.9	54.7	40.4	50.6	44.4	41.1	23.8	
TOTAL [5]	N	62	59	62	58	59	73	51	43	467
	V	73.8	75.6	72.1	65.2	69.4	73.7	53.7	53.8	67.1
OTHER DEFINITE EMPLOYMENT [8]	N	7	6	7	11	10	10	8	10	69
	V	8.3	7.7	8.1	12.4	11.8	10.1	8.4	12.5	9.9
NO FIRM COMMITMENT	N	14	9	15	15	12	11	26	21	123
	V	16.7	11.5	17.4	16.9	14.1	11.1	27.4	26.3	17.7
TOTAL PHDS FROM DISTINGUISHED DEPARTMENTS		84	78	86	89	85	99	95	80	69[illegible]

TEXT TABLE B. CONTINUED

PHD FIELD - ECONOMICS

POSTGRADUATION PLANS AND ROOSE-ANDERSEN RATING OF DEPARTMENT OF POSTGRADUATION ACTIVITY		FISCAL YEAR OF DOCTORATE 1971	1972	1973	1974	1975	1976	1977	1978	TOTAL 1971-1978
DEFINITE POSTDOCTORAL STUDY										
DISTINGUISHED R-A [1]	V[2]	1 1.0	2 1.8	2 2.0				1 1.1	2 1.8	8 1.0
STRONG R-A [3]	V							1 1.1	1 .9	2 .3
OTHER RATED R-A [4]	V								1 .9	1 .1
NOT RATED R-A	V	1 1.0	2 1.8						6 5.5	9 1.2
FOREIGN INSTITUTION	V							1 1.1	1 .9	2 .3
NON-ACADEMIC	V			1 1.0						1 .1
TOTAL [5]	V	3 3.0	4 3.6	3 3.1				3 3.3	12 10.9	25 3.2
DEFINITE ACADEMIC EMPLOYMENT										
DISTINGUISHED R-A	V	[6]	8 7.2	6 6.1	7 8.3	5 5.1	4 4.7	11 12.2	6 5.5	[6]
STRONG R-A	V	[6]	10 9.0	15 15.3	3 3.6	8 8.1	2 2.3	12 13.3	4 3.6	[6]
OTHER RATED R-A	V	[6]	15 13.5	14 14.3	11 13.1	14 14.1	12 14.0	11 12.2	12 10.9	[6]
NOT RATED R-A [7]	V	[6]	37 33.3	30 30.6	32 38.1	28 28.3	34 39.5	23 25.6	39 35.5	[6]
TOTAL [5]	V	57 57.6	73 65.8	66 67.3	54 64.3	55 55.6	53 61.6	57 63.3	61 55.5	476 61.3
OTHER DEFINITE EMPLOYMENT [8]	V	26 26.3	26 23.4	18 18.4	24 28.6	29 29.3	19 22.1	22 24.4	19 17.3	183 23.6
NO FIRM COMMITMENT	V	13 13.1	8 7.2	11 11.2	6 7.1	15 15.2	14 16.3	8 8.9	18 16.4	93 12.0
TOTAL PHDS FROM DISTINGUISHED DEPARTMENTS		99	111	98	84	99	86	90	110	777

TEXT TABLE B. CONTINUED

PHD FIELD - POLITICAL SCIENCE

POSTGRADUATION PLANS AND ROOSE-ANDERSEN RATING OF DEPARTMENT OF POSTGRADUATION ACTIVITY		FISCAL YEAR OF DOCTORATE 1971	1972	1973	1974	1975	1976	1977	1978	TOTAL 1971-1978
DEFINITE POSTDOCTORAL STUDY										
DISTINGUISHED R-A [1]	N	1	3		3		4	1		12
	V [2]	.9	2.4		2.3		3.1	1.1		1.3
STRONG R-A [3]	N		3		1			1		5
	V		2.4		.8			1.1		.5
OTHER RATED R-A [4]	N				1					1
	V				.8					.1
NOT RATED R-A	N	2	2	1	3	4	2	1	1	16
	V	1.8	1.6	.9	2.3	3.8	1.5	1.1	.9	1.7
FOREIGN INSTITUTION	N			2			1	2		5
	V			1.8			.8	2.2		.5
NON-ACADEMIC	N			1					1	2
	V			.9					.9	.2
TOTAL [5]	N	3	8	4	11	4	7	6	2	45
	V	2.8	6.5	3.5	8.3	3.8	5.3	6.6	1.8	4.9
DEFINITE ACADEMIC EMPLOYMENT										
DISTINGUISHED R-A	N	[6]	8	6	10	8	5	5	4	[6]
	V		6.5	5.3	7.6	7.7	3.8	5.5	3.6	
STRONG R-A	N	[6]	5	4	7	2	5	3	9	[6]
	V		4.0	3.5	5.3	1.9	3.8	3.3	8.0	
OTHER RATED R-A	N	[6]	18	6	11	14	11	13	11	[6]
	V		14.5	5.3	8.3	13.5	8.4	14.3	9.8	
NOT RATED R-A [7]	N	[6]	52	52	51	38	38	34	44	[6]
	V		41.9	46.0	38.6	36.5	29.0	37.4	39.3	
TOTAL [5]	N	76	86	69	79	62	60	55	69	556
	V	69.7	69.4	61.1	59.8	59.6	45.8	60.4	61.6	60.7
OTHER DEFINITE EMPLOYMENT [8]	N	12	9	14	9	8	20	12	10	94
	V	11.0	7.3	12.4	6.8	7.7	15.3	13.2	8.9	10.3
NO FIRM COMMITMENT	N	18	21	26	33	30	44	18	31	221
	V	16.5	16.9	23.0	25.0	28.8	33.6	19.8	27.7	24.1
TOTAL PHDS FROM DISTINGUISHED DEPARTMENTS		109	124	113	132	104	131	91	112	916

TEXT TABLE B. CONTINUED

PHD FIELD - ART HISTORY

POSTGRADUATION PLANS AND ROOSE-ANDERSEN RATING OF DEPARTMENT OF POSTGRADUATION ACTIVITY		FISCAL YEAR OF DOCTORATE 1971	1972	1973	1974	1975	1976	1977	1978	TOTAL 1971-1978
DEFINITE POSTDOCTORAL STUDY	V [2]			2 3.6	1 1.9	2 4.0	1 1.7			6 1.5
DEFINITE ACADEMIC EMPLOYMENT										
DISTINGUISHED R-A [1]	V	[6]	3 10.0	2 3.6	3 5.8	2 4.0	1 1.7	2 3.9	3 6.1	[6]
STRONG R-A [3]	V	[6]	1 3.3	1 1.8		1 2.0	1 1.7		3 6.1	[6]
OTHER RATED R-A [4]	V	[6]	3 10.0	5 8.9	1 1.9	1 2.0	2 3.4	1 2.0	1 2.0	[6]
NOT RATED R-A [7]	V	[6]	12 40.0	22 39.3	28 53.8	23 46.0	28 47.5	22 43.1	16 32.7	[6]
TOTAL [5]	V	23 56.1	19 63.3	30 53.6	32 61.5	27 54.0	32 54.2	25 49.0	23 46.9	211 54.4
OTHER DEFINITE EMPLOYMENT [8]	V	5 12.2		3 5.4	4 7.7	4 8.0	4 6.8	9 17.6	4 8.2	33 8.5
NO FIRM COMMITMENT	V	13 31.7	11 36.7	21 37.5	15 28.8	17 34.0	22 37.3	17 33.3	22 44.9	138 35.6
TOTAL PHDS FROM DISTINGUISHED DEPARTMENTS		41	30	56	52	50	59	51	49	388

PHD FIELD - HISTORY

DEFINITE POSTDOCTORAL STUDY	V [2]	8 3.0	4 1.5	10 3.4	6 2.1	7 2.6	10 3.7	12 5.4	6 2.9	63 3.0
DEFINITE ACADEMIC EMPLOYMENT										
DISTINGUISHED R-A [1]	V	[6]	14 5.1	7 2.4	10 3.4	9 3.4	10 3.7	14 6.3	9 4.3	[6]
STRONG R-A [3]	V	[6]	15 5.5	9 3.1	10 3.4	7 2.6	14 5.2	4 1.8	5 2.4	[6]
OTHER RATED R-A [4]	V	[6]	18 6.6	20 6.8	16 5.5	16 6.0	10 3.7	15 6.7	15 7.2	[6]
NOT RATED R-A [7]	V	[6]	118 43.1	111 37.8	110 37.8	88 33.0	92 34.5	60 26.9	73 34.9	[6]
TOTAL [5]	V	182 67.4	169 61.7	148 50.3	148 50.9	122 45.7	126 47.2	97 43.5	103 49.3	1095 52.3
OTHER DEFINITE EMPLOYMENT [8]	V	12 4.4	12 4.4	17 5.8	22 7.6	19 7.1	26 9.7	15 6.7	15 7.2	138 6.6
NO FIRM COMMITMENT	V	68 25.2	89 32.5	119 40.5	115 39.5	119 44.6	105 39.3	99 44.4	85 40.7	799 38.1
TOTAL PHDS FROM DISTINGUISHED DEPARTMENTS		270	274	294	291	267	267	223	209	2095

TEXT TABLE B. CONTINUED

PHD FIELD - ENGLISH LANGUAGE & LITERATURE

POSTGRADUATION PLANS AND ROOSE-ANDERSEN RATING OF DEPARTMENT OF POSTGRADUATION ACTIVITY		FISCAL YEAR OF DOCTORATE 1971	1972	1973	1974	1975	1976	1977	1978	TOTAL 1971-1978
DEFINITE POSTDOCTORAL STUDY	V [2]	4 2.2	3 1.6	3 1.7	1 .6	2 1.3	3 2.1	2 1.4	5 3.8	23 1.8
DEFINITE ACADEMIC EMPLOYMENT										
DISTINGUISHED R-A [1]	V	[6]	4 2.1	10 5.6	13 7.7	9 5.8	8 5.7	5 3.6	13 9.8	[6]
STRONG R-A [3]	V	[6]	14 7.3	11 6.1	9 5.4	11 7.1	5 3.6	5 3.6	7 5.3	[6]
OTHER RATED R-A [4]	V	[6]	20 10.4	16 8.9	7 4.2	11 7.1	10 7.1	9 6.5	10 7.5	[6]
NOT RATED R-A [7]	V	[6]	90 46.9	86 47.8	69 41.1	59 38.1	57 40.7	54 38.8	35 26.3	[6]
TOTAL [5]	V	128 71.1	133 69.3	123 68.3	98 58.3	91 58.7	80 57.1	74 53.2	66 49.6	793 61.6
OTHER DEFINITE EMPLOYMENT [8]	V	4 2.2	6 3.1	5 2.8	6 3.6	7 4.5	4 2.9	10 7.2	6 4.5	48 3.7
NO FIRM COMMITMENT	V	44 24.4	50 26.0	49 27.2	63 37.5	55 35.5	53 37.9	53 38.1	56 42.1	423 32.9
TOTAL PHDS FROM DISTINGUISHED DEPARTMENTS		180	192	180	168	155	140	139	133	1287

PHD FIELD - GERMAN LANGUAGE & LITERATURE

DEFINITE POSTDOCTORAL STUDY	V [2]	1 3.1	1 2.7		1 2.9				1 4.2	4 1.5
DEFINITE ACADEMIC EMPLOYMENT										
DISTINGUISHED R-A [1]	V	[6]	1 2.7	2 5.4		1 2.9	1 3.1	4 12.5	1 4.2	[6]
STRONG R-A [3]	V	[6]	3 8.1	2 5.4	3 8.8			2 6.3	4 16.7	[6]
OTHER RATED R-A [4]	V	[6]	3 8.1	4 10.8		1 2.9		3 9.4	3 12.5	[6]
NOT RATED R-A [7]	V	[6]	20 54.1	20 54.1	11 32.4	16 45.7	13 40.6	9 28.1	6 25.0	[6]
TOTAL [5]	V	21 65.6	30 81.1	29 78.4	14 41.2	18 51.4	14 43.8	18 56.3	14 58.3	158 60.1
OTHER DEFINITE EMPLOYMENT [8]	V				1 2.9	4 11.4		3 9.4		8 3.0
NO FIRM COMMITMENT	V	10 31.3	6 16.2	8 21.6	18 52.9	13 37.1	18 56.3	11 34.4	9 37.5	93 35.4
TOTAL PHDS FROM DISTINGUISHED DEPARTMENTS		32	37	37	34	35	32	32	24	263

SOURCE: NRC, Commission on Human Resources, Doctorate Records File.

recent increase. Chemical engineering and electrical engineering have remained almost constant at 12%. In biochemistry, postdoctoral study is the major postgraduation activity of new Ph.D. recipients, averaging 71.7% over the eight-year period. The proportion of doctorate recipients who did not have firm commitments for study or employment has decreased in both chemical and electrical engineering and has increased in the social sciences, (psychology, anthropology, sociology, economics and political science).

Humanities

Four humanities fields were selected for presentation in Table B: art history, history, English language and literature and German language and literature. Because so few humanities Ph.D.'s plan postdoctoral study immediately after the doctorate, the data are summarized on a single line rather than being distributed by Roose-Andersen ratings. With regard to employment, there is a general decrease in the number of doctorate recipients from distinguished departments with a definite commitment for academic employment. This trend is shared with the science disciplines, but in contrast to the science and engineering fields, the proportion of humanities Ph.D.'s planning to enter nonacademic employment has remained low, while the number without firm commitment at the time of the doctorate has increased.

EXPLANATION OF FIVE BASIC TABLES

TABLE 1	Number of Doctorate Recipients by Sex and Subfield, FY 1978
TABLE 1A	Number of Doctorate Recipients by Citizenship, Racial/Ethnic Group and Subfield, FY 1978
TABLE 2	Statistical Profile of Doctorate Recipients by Sex and by Field of Doctorate, FY 1978 (three tables)
TABLE 3	Percentage of FY 1978 Doctorate Recipients by Sources of Support in Graduate School, by Sex and Summary Field
TABLE 4	Number of FY 1978 Doctorate Recipients by Sex, State of Doctoral Institution and Summary Field
TABLE 5	Statistical Profile of Doctorate Recipients by Racial or Ethnic Group and U.S. Citizenship Status, FY 1978

Table titles and headings are generally self-explanatory, but a few terms need special definition or explanation. The survey questionnaire is reproduced on p. 38.

Table 2:

There are three 2-page tables; one contains data about all doctorate recipients in FY 1978 and the other two present data by sex. This table provides data by field and also by broader summary field. Refer to inside back cover for the codes included in each broad field and the Specialties List on page 40 for the codes and the names of each subfield. The doctoral fields that head Table 2 are the same as those in the 1977 report except for the addition of Computer Sciences, a new broad field in the EMP subtotal.

"Median Age at Doctorate" --One-half received the doctorate at this age or younger.

"Percentage with Master's" --This indicates the percentage of doctorate recipients in a field who received a master's degree in any field before taking the doctorate.

"Median Time Lapse" --"Total Time" refers to total calendar time elapsed between year of baccalaureate and year of doctorate; "Registered Time" refers to the total time registered in a university between baccalaureate and doctorate.

Postgraduation plans of the doctorate recipients are grouped as: "Postdoctoral Study Plans" (fellowship, research associateship, traineeship, other), "Planned Employment" (educational institution, industry, etc.), or "Postdoctoral Status Unknown." The sum of these columns of percentages totals 100% with allowance for rounding. For example, 5.3% of all the engineers plan to go to postdoctoral fellowships, 9.4% to research associateships, 0.7% to traineeships, 0.9% plan on some other form of postdoctoral study support; 76.6% plan on employment and 7.1% did not indicate their postgraduation plans. The percentages listed by type of employer (educational institution, industry, etc.) total to the 76.6% planning on employment.

The four lines of data beginning with "Definite Postdoctoral Study," first included in the 1974 report, distinguish between individuals who have definite postgraduation plans (item S: "Have signed contract or made definite commitment" in the survey questionnaire) and those who are still seeking employment or postdoctoral study (item S: negotiating, seeking, or other). These four lines when added to the prior line "Status Unknown" total

100%. The two lines "Definite Postdoctoral Study" and "Seeking Postdoctoral Study" add to give the total percentage planning postdoctoral study listed in the table as "Postdoctoral Study Plans" and the two lines "Definite Employment" and "Seeking Employment" add to give the total percentage planning employment listed in the table as "Planned Employment After Doctorate."

Percentages showing the distribution of doctorate recipients by work activity and by region of employment are based on those who have a definite employment commitment. They exclude those still seeking employment and those planning postdoctoral study as described in the categories above. These data differ from Summary Reports prior to 1974 which included all individuals planning on employment, i.e., those seeking as well as those having definite employment.

Table 3:

Data in Table 3 describe sources of financial support during graduate school. The question was answered by 29,122 (94.4%) of the FY 1978 doctorate recipients. The data in the table should be interpreted as follows: 199 male doctorate recipients in the physical sciences reported financial support from NSF fellowships during graduate school. This number is 5.5% of the male physical sciences doctorates who answered the question, and it is 34.0% of the males in all fields who reported NSF fellowship support. Since students indicate multiple sources of support, the vertical percentages sum to more than 100%.

Changes in the survey questionnaire item on source of support have reduced the comparability of the 1977 and 1978 data with data presented in earlier Summary Reports. An explanation of the effects of these changes on Table 3 is detailed on page 13 of the 1977 Summary Report.

Table 4:

Table 4 shows the number of persons receiving a doctorate from universities in each of the 50 states, the District of Columbia and Puerto Rico.

Table 5:

The 1973 Summary Report was the first to include data for racial and ethnic groups. The tables in that report stimulated many requests for more detailed data by individual racial or ethnic group. Such data are provided in Table 5, first included in the 1974 Summary Report. Table 5 contains data by racial or ethnic group and by U.S. citizenship status for selected variables from Tables 2 and 3. Comparisons between the 1973 data and data for 1974-76 are somewhat tenuous because of the large number of cases (8,592) for which racial or ethnic data were unavailable in 1973.

Changes in the survey questionnaire item on racial or ethnic group have reduced the comparability of the 1977 and 1978 data with that presented in earlier Summary Reports. An explanation of the effects of these changes in Table 5 is detailed on page 13 of the 1977 Summary Report.

TABLE 1
NUMBER OF DOCTORATE RECIPIENTS BY SEX AND SUBFIELD, FY 1978

SUBFIELD OF DOCTORATE	NUMBER OF DOCTORATES		
	MEN	WOMEN	TOTAL
TOTAL ALL FIELDS	**22537**	**8313**	**30850**
PHYSICAL SCIENCES	**3753**	**440**	**4193**
MATHEMATICS	718	120	838
ALGEBRA	72	15	87
ANALYSIS AND FUNCTIONAL ANALYSIS	105	13	118
GEOMETRY	21	1	22
LOGIC	21	3	24
NUMBER THEORY	17	1	18
PROBABILITY, MATH STATISTICS	137	31	168
TOPOLOGY	52	4	56
COMPUTING THEORY AND PRACTICE	46	9	55
OPERATIONS RESEARCH	38	5	43
APPLIED	96	12	108
MATHEMATICS, GENERAL	77	15	92
MATHEMATICS, OTHER	36	11	47
COMPUTER SCIENCES	110	11	121
PHYSICS AND ASTRONOMY	1014	52	1066
ASTRONOMY	60	4	64
ASTROPHYSICS	71	3	74
ATOMIC AND MOLECULAR	86	2	88
ELECTROMAGNETISM	10		10
ACOUSTICS	14		14
FLUIDS	12	1	13
PLASMA	61	7	68
OPTICS	33		33
THERMAL	11		11
ELEMENTARY PARTICLES	132	3	135
NUCLEAR STRUCTURE	73	4	77
SOLID STATE	226	17	243
PHYSICS, GENERAL	143	8	151
PHYSICS, OTHER	82	3	85
CHEMISTRY	1349	196	1545
ANALYTICAL	160	17	177
INORGANIC	174	27	201
ORGANIC	399	55	454
NUCLEAR	11	2	13
PHYSICAL	268	43	311
THEORETICAL	39	6	45
AGRICULTURAL AND FOOD	6	2	8
PHARMACEUTICAL	46	5	51
POLYMER	53	4	57
CHEMISTRY, GENERAL	138	26	164
CHEMISTRY, OTHER	55	9	64
EARTH, ENVIRONMENTAL AND MARINE SCI	562	61	623
MINERALOGY, PETROLOGY	29	5	34
GEOCHEMISTRY	46	5	51
STRATIGRAPHY, SEDIMENTATION	28	4	32
PALEONTOLOGY	25	6	31
STRUCTURAL GEOLOGY	24	4	28
GEOPHYSICS (SOLID EARTH)	54	6	60
GEOMORPHOL, GLACIAL GEOLOGY	23	1	24
HYDROLOGY AND WATER RESOURCES	31		31
OCEANOGRAPHY	90	8	98
MARINE SCIENCES, OTHER	22	6	28
ATMOSPHERIC PHYSICS AND CHEMISTRY	22		22
ATMOSPHERIC DYNAMICS	20	1	21
ATMOSPHERIC SCIENCES, OTHER	32	2	34
ENVIRONMENTAL SCIENCES, GENERAL	14	2	16
ENVIRONMENTAL SCIENCES, OTHER	24	5	29
APPL GEOL, GEOL ENG, ECON GEOL	14	1	15
FUEL TECHNOL, PETROL ENG	2		2
EARTH SCIENCES, GENERAL	41	4	45
EARTH SCIENCES, OTHER	21	1	22

SUBFIELD OF DOCTORATE	NUMBER OF DOCTORATES		
	MEN	WOMEN	TOTAL
ENGINEERING	**2370**	**53**	**2423**
AERONAUTICAL AND ASTRONAUTICAL	102	1	103
AGRICULTURAL	43		43
BIOMEDICAL	79		79
CIVIL	230	6	236
CHEMICAL	256	5	261
CERAMIC	24		24
COMPUTER	71	5	76
ELECTRICAL	399	11	410
ELECTRONICS	52	1	53
INDUSTRIAL	49	2	51
NUCLEAR	104	4	108
ENGINEERING MECHANICS	94	1	95
ENGINEERING PHYSICS	15		15
MECHANICAL	279	2	281
METALLURGY AND PHYSICAL MET	96	2	98
SYSTEMS DESIGN, SYSTEMS SCIENCE	61	1	62
OPERATIONS RESEARCH	82	2	84
FUEL TECH, PETROLEUM	19		19
SANITARY AND ENVIRONMENTAL	65	2	67
MINING	7		7
MATERIALS SCIENCE	122	3	125
ENGINEERING, GENERAL	44	1	45
ENGINEERING, OTHER	77	4	81
LIFE SCIENCES	**3805**	**1082**	**4887**
BIOLOGICAL SCIENCES	2377	815	3192
BIOCHEMISTRY	461	146	607
BIOPHYSICS	88	22	110
BIOMETRICS, BIOSTATISTICS	36	9	45
ANATOMY	102	41	143
CYTOLOGY	24	9	33
EMBRYOLOGY	11	4	15
IMMUNOLOGY	64	29	93
BOTANY	101	46	147
ECOLOGY	150	20	170
HYDROBIOLOGY	2	1	3
MICROBIOLOGY AND BACTERIOLOGY	248	100	348
PHYSIOLOGY, ANIMAL	257	58	315
PHYSIOLOGY, PLANT	38	5	43
ZOOLOGY	183	48	231
GENETICS	82	44	126
ENTOMOLOGY	134	12	146
MOLECULAR BIOLOGY	118	54	172
NUTRITION AND/OR DIETETICS	34	56	90
BIOL SCIENCES, GENERAL	126	64	190
BIOL SCIENCES, OTHER	118	47	165
AGRICULTURAL SCIENCES	942	70	1012
AGRONOMY	129	8	137
AGRICULTURAL ECONOMICS	154	5	159
ANIMAL HUSBANDRY	21		21
FOOD SCIENCE AND TECHNOLOGY	92	25	117
FISH AND WILDLIFE	59	2	61
FORESTRY	85	3	88
HORTICULTURE	64	1	65
SOILS AND SOIL SCIENCE	92	5	97
ANIMAL SCIENCE AND ANIMAL NUTRITION	93	8	101
PHYTOPATHOLOGY	83	6	89
AGRICULTURE, GENERAL	4	2	6
AGRICULTURE, OTHER	66	5	71
MEDICAL SCIENCES	486	197	683
PUBLIC HEALTH AND EPIDEMIOLOGY	48	50	98
VETERINARY MEDICINE	25	2	27
NURSING	2	30	32
PARASITOLOGY	12	1	13
ENVIRONMENTAL HEALTH	22	9	31
PATHOLOGY	61	29	90
PHARMACOLOGY	169	44	213
PHARMACY	64	8	72
MEDICAL SCIENCES, GENERAL	13	2	15
MEDICAL SCIENCES, OTHER	70	22	92

TABLE 1. CONTINUED

SUBFIELD OF DOCTORATE	NUMBER OF DOCTORATES		
	MEN	WOMEN	TOTAL
SOCIAL SCIENCES (INCL PSYCH)	**4502**	**1951**	**6453**
ANTHROPOLOGY	236	163	399
COMMUNICATIONS	198	72	270
SOCIOLOGY	386	224	610
ECONOMICS	687	91	778
ECONOMETRICS	21	2	23
STATISTICS	32	14	46
GEOGRAPHY	127	31	158
AREA STUDIES	16	10	26
POLITICAL SCIENCE	485	118	603
PUBLIC ADMINISTRATION	134	22	156
INTERNATIONAL RELATIONS	82	10	92
URBAN AND REGIONAL PLANNING	53	23	76
SOCIAL SCIENCES, GENERAL	23	10	33
SOCIAL SCIENCES, OTHER	96	38	134
PSYCHOLOGY	1926	1123	3049
CLINICAL	647	419	1066
COUNSELING AND GUIDANCE	182	90	272
DEVELOP AND GERONTOL	104	103	207
EDUCATIONAL	90	54	144
SCHOOL PSYCHOLOGY	67	58	125
EXPERIMENTAL	215	85	300
COMPARATIVE	11	9	20
PHYSIOLOGICAL	90	36	126
INDUSTRIAL AND PERSONNEL	59	15	74
PERSONALITY	29	13	42
PSYCHOMETRICS	11	4	15
SOCIAL	127	76	203
PSYCHOLOGY, GENERAL	192	102	294
PSYCHOLOGY, OTHER	102	59	161
HUMANITIES	**2637**	**1598**	**4235**
ART, HISTORY AND CRITICISM	58	93	151
HISTORY, AMERICAN	267	55	322
HISTORY, EUROPEAN	152	63	215
HISTORY, OTHER	224	67	291
HISTORY AND PHILOSOPHY OF SCIENCE	18	7	25
AMERICAN STUDIES	54	28	82
THEATRE AND THEATRE CRITICISM	75	27	102
MUSIC	264	106	370
SPEECH AS A DRAMATIC ART	39	30	69
ARCHEOLOGY	16	16	32
RELIGION	163	28	191
PHILOSOPHY	239	50	289
LINGUISTICS	110	65	175
COMPARATIVE LITERATURE	46	68	114
LANGUAGES AND LITERATURE	873	858	1731
AMERICAN	115	97	212
ENGLISH	429	386	815
GERMAN	48	55	103
RUSSIAN	29	23	52
FRENCH	58	125	183
SPANISH AND PORTUGUESE	78	95	173
ITALIAN	9	14	23
CLASSICAL	41	26	67
OTHER LANGUAGES	66	37	103
HUMANITIES, GENERAL	10	15	25
HUMANITIES, OTHER	29	22	51
PROFESSIONAL FIELDS	**1124**	**330**	**1454**
THEOLOGY	210	15	225
BUSINESS ADMINISTRATION	655	56	711
HOME ECONOMICS	9	72	81
JOURNALISM	14	8	22
SPEECH AND HEARING SCIENCES	71	72	143
LAW, JURISPRUDENCE	21	1	22
SOCIAL WORK	92	81	173
LIBRARY AND ARCHIVAL SCIENCE	36	21	57
PROFESSIONAL FIELDS, OTHER	16	4	20

SUBFIELD OF DOCTORATE	NUMBER OF DOCTORATES		
	MEN	WOMEN	TOTAL
EDUCATION	**4338**	**2852**	**7190**
FOUNDATIONS: SOCIAL, PHILOS	154	83	237
EDUCATIONAL PSYCHOLOGY	239	206	445
ELEMENTARY EDUCATION, GENERAL	68	149	217
SECONDARY EDUCATION, GENERAL	83	50	133
HIGHER EDUCATION	389	223	612
ADULT EDUC AND EXTENSION EDUC	123	77	200
EDUCATIONAL MEAS AND STATISTICS	59	38	97
CURRICULUM AND INSTRUCTION	448	359	807
EDUCATIONAL ADMIN AND SUPERVISION	1088	365	1453
GUIDANCE,COUNS,STUDENT PERSONNEL	321	240	561
SPECIAL ED (GIFTED,HANDICAPPED,ETC)	154	157	311
AUDIO-VISUAL MEDIA	64	27	91
TEACHING FIELDS	785	566	1351
AGRICULTURE	33	2	35
ART	20	28	48
BUSINESS	42	20	62
ENGLISH	30	50	80
FOREIGN LANGUAGE	15	21	36
HOME ECONOMICS	2	24	26
INDUSTRIAL ARTS	43		43
MATHEMATICS	34	23	57
MUSIC	61	25	86
PHYS ED, HEALTH, AND REC	200	124	324
READING	30	112	142
SCIENCE	75	26	101
SOCIAL SCIENCE	34	12	46
SPEECH	11	9	20
VOCATIONAL	141	58	199
OTHER TEACHING FIELDS	14	32	46
EDUCATION, GENERAL	262	169	431
EDUCATION, OTHER	101	143	244
OTHER AND UNSPECIFIED	**8**	**7**	**15**

SOURCE: NRC, Commission on Human Resources, Doctorate Records File.

TABLE 1A
NUMBER OF DOCTORATE RECIPIENTS BY CITIZENSHIP, RACIAL/ETHNIC GROUP AND SUBFIELD, FY 1978

SUBFIELD OF DOCTORATE	TOTAL DOCTORATES	NON-U.S. CITIZENS TEMP. VISAS	U.S. CITIZENS AND NON-U.S. WITH PERMANENT VISAS RACIAL/ETHNIC GROUP 1/						
			TOTAL	AMERICAN INDIAN	ASIAN	BLACK	HISPANIC 2/	WHITE	OTHER & UNKNOWN
TOTAL ALL FIELDS	30850 3/	3616	26529	172	1031	1100	532	22132	1562
PHYSICAL SCIENCES	4193	445	3456	20	252	54	30	2840	260
MATHEMATICS	838	155	666	3	43	13	5	561	41
ALGEBRA	87	13	74			2		70	2
ANALYSIS AND FUNCTIONAL ANALYSIS	118	19	98		8	2		82	6
GEOMETRY	22	4	18					14	4
LOGIC	24	5	19		2			16	1
NUMBER THEORY	18	1	17		1			16	
PROBABILITY, MATH STATISTICS	168	38	130		14	2	1	109	4
TOPOLOGY	56	6	50	1	2	1	1	40	5
COMPUTING THEORY AND PRACTICE	55	7	48			1		42	5
OPERATIONS RESEARCH	43	8	34	1	1	1	1	30	
APPLIED	108	24	82		3	3		73	3
MATHEMATICS, GENERAL	92	21	59	1	4			41	11
MATHEMATICS, OTHER	47	9	37		6	1	2	28	
COMPUTER SCIENCES	121	26	90	1	4			76	9
PHYSICS AND ASTRONOMY	1066	181	867	3	58	8	6	708	84
ASTRONOMY	64	1	63					55	8
ASTROPHYSICS	74	10	64		3		1	56	4
ATOMIC AND MOLECULAR	88	12	76		4		1	65	6
ELECTROMAGNETISM	10	1	9		1			8	
ACOUSTICS	14	1	13		1			11	1
FLUIDS	13	3	10		2			8	
PLASMA	68	9	59	1	2			50	6
OPTICS	33	7	26		2			24	
THERMAL	11	3	8					7	1
ELEMENTARY PARTICLES	135	27	108		5	3	2	86	12
NUCLEAR STRUCTURE	77	16	61	1	2	1		49	8
SOLID STATE	243	47	196		18	1	2	162	13
PHYSICS, GENERAL	151	36	97		12	2		64	19
PHYSICS, OTHER	83	8	77	1	6	1		63	6
CHEMISTRY	1545	215	1293	9	122	29	14	1033	86
ANALYTICAL	177	11	164	1	12	5	3	134	9
INORGANIC	201	21	179		10	5	1	150	13
ORGANIC	454	58	393	4	30	4	5	328	22
NUCLEAR	13		13		3			9	1
PHYSICAL	311	49	261	2	26	7	1	210	15
THEORETICAL	45	8	37		1		1	34	1
AGRICULTURAL AND FOOD	8	3	4		1			3	
PHARMACEUTICAL	51	3	45	2	13	1		27	2
POLYMER	57	12	45		12	2	1	28	2
CHEMISTRY, GENERAL	164	43	95		10	4	2	60	19
CHEMISTRY, OTHER	64	7	57		4	1		50	2
EARTH, ENVIRONMENTAL AND MARINE SCI	623	68	540	4	25	4	5	462	40
MINERALOGY, PETROLOGY	34		34					30	4
GEOCHEMISTRY	51	4	47		1			43	3
STRATIGRAPHY, SEDIMENTATION	32	3	29					26	3
PALEONTOLOGY	31	1	29	1				28	
STRUCTURAL GEOLOGY	28	2	26					25	1
GEOPHYSICS (SOLID EARTH)	60	12	46		6		1	38	1
GEOMORPHOL, GLACIAL GEOLOGY	24	1	23		1	1		20	1
HYDROLOGY AND WATER RESOURCES	31	9	22	1	4	1		14	2
OCEANOGRAPHY	98	14	84	1	1			76	6
MARINE SCIENCES, OTHER	28		28				1	26	1
ATMOSPHERIC PHYSICS AND CHEMISTRY	22	2	20		3			17	
ATMOSPHERIC DYNAMICS	21	2	19		2			15	2
ATMOSPHERIC SCIENCES, OTHER	34	1	30		4			25	1
ENVIRONMENTAL SCIENCES, GENERAL	16		15					14	1
ENVIRONMENTAL SCIENCES, OTHER	29	1	26		2	2	1	19	2
APPL GEOL, GEOL ENG, ECON GEOL	15	1	14					12	2
FUEL TECHNOL, PETROL ENG	2	2							
EARTH SCIENCES, GENERAL	45	7	34	1	1		2	22	8
EARTH SCIENCES, OTHER	22	6	14					12	2

1/ For more detailed explanation of racial/ethnic groups see item H on questionnaire on page 38.
2/ See definition on page 38. The definition used in this survey is not consistent with the guidance received from OMB in July 1977, subsequent to this survey, which defines "Hispanic" more restrictively to exclude persons from Portugal and to include only those persons from Central and South American who are of Spanish origin, descent or culture. Under the revised definition persons from Brazil, Guyana, Surinam, Trinidad, and Belize would be classified according to their race, and would not necessarily be included in the Hispanic category.
3/ Includes 905 individuals who did not report their citizenship at time of doctorate.

TABLE 1A. CONTINUED

SUBFIELD OF DOCTORATE	TOTAL DOCTORATES	NON-U.S. CITIZENS & TEMP. VISAS	U.S. CITIZENS AND NON-U.S. WITH PERMANENT VISAS RACIAL/ETHNIC GROUP 1/						
			TOTAL	AMERICAN INDIAN	ASIAN	BLACK	HISPANIC 2/	WHITE	OTHER & UNKNOWN
ENGINEERING	**2423**	**767**	**1584**	**10**	**272**	**13**	**32**	**1160**	**97**
AERONAUTICAL AND ASTRONAUTICAL	103	39	62	2	15		1	43	1
AGRICULTURAL	43	19	24		3			21	
BIOMEDICAL	79	10	66		8	1	2	50	5
CIVIL	236	109	118	1	19	3	6	86	3
CHEMICAL	261	83	173	1	42	1	2	120	7
CERAMIC	24	2	22		2			20	
COMPUTER	76	23	53	1	9	1	3	37	2
ELECTRICAL	410	125	265		42	2	7	190	24
ELECTRONICS	53	16	37		3		1	26	7
INDUSTRIAL	51	11	40		2	3		32	3
NUCLEAR	108	27	79		8		1	65	5
ENGINEERING MECHANICS	95	36	55	1	11			39	4
ENGINEERING PHYSICS	15	2	13		1			12	
MECHANICAL	281	84	193		39		3	143	8
METALLURGY AND PHYSICAL MET	98	29	67		15		2	40	10
SYSTEMS DESIGN, SYSTEMS SCIENCE	62	24	38	1	6			31	
OPERATIONS RESEARCH	84	26	57	2	8		1	41	5
FUEL TECH, PETROLEUM	19	13	6		3			3	
SANITARY AND ENVIRONMENTAL	67	13	52		6	1	2	40	3
MINING	7	1	6		2			4	
MATERIALS SCIENCE	125	36	88		15			69	4
ENGINEERING, GENERAL	45	12	23		3	1	1	14	4
ENGINEERING, OTHER	81	27	47	1	10			34	2
LIFE SCIENCES	**4887**	**662**	**4103**	**33**	**219**	**79**	**47**	**3483**	**242**
BIOLOGICAL SCIENCES	3192	271	2836	22	140	47	29	2431	167
BIOCHEMISTRY	607	66	529	4	44	9	8	438	26
BIOPHYSICS	110	5	98	1	11			78	8
BIOMETRICS, BIOSTATISTICS	45	7	38		4			31	3
ANATOMY	143	8	132		1	2		124	5
CYTOLOGY	33	3	29					28	1
EMBRYOLOGY	15		15		1			14	
IMMUNOLOGY	93	6	85	1	5	1	3	72	3
BOTANY	147	15	126	1	5	5	1	110	4
ECOLOGY	170	8	162	1	4			156	1
HYDROBIOLOGY	3		3					3	
MICROBIOLOGY AND BACTERIOLOGY	348	31	310	4	13	12	4	254	23
PHYSIOLOGY, ANIMAL	315	19	283	1	8	4	4	247	19
PHYSIOLOGY, PLANT	43	6	37	1	2		2	29	3
ZOOLOGY	231	6	219	3	2	5	1	201	7
GENETICS	126	15	109		3	1		98	7
ENTOMOLOGY	146	22	120	1	8	1	1	108	1
MOLECULAR BIOLOGY	172	14	158	2	8	2	2	131	13
NUTRITION AND/OR DIETETICS	90	17	70		8	2	3	50	7
BIOL SCIENCES, GENERAL	190	14	161	2	7	2		124	26
BIOL SCIENCES, OTHER	165	9	152		6	1		135	10
AGRICULTURAL SCIENCES	1012	329	667	7	42	15	12	560	31
AGRONOMY	137	47	85	2	3	1		74	5
AGRICULTURAL ECONOMICS	159	62	93		5	4	3	79	2
ANIMAL HUSBANDRY	21	4	17					17	
FOOD SCIENCE AND TECHNOLOGY	117	34	81	2	18	1	2	54	4
FISH AND WILDLIFE	61	8	53	1	2	1	1	47	1
FORESTRY	88	22	66	1	5		1	52	7
HORTICULTURE	65	23	41		2		1	36	2
SOILS AND SOIL SCIENCE	97	40	57	1	1	1		53	1
ANIMAL SCIENCE AND ANIMAL NUTRITION	101	34	65		3	4		54	4
PHYTOPATHOLOGY	89	29	60				2	54	4
AGRICULTURE, GENERAL	6	3	3				1	1	1
AGRICULTURE, OTHER	71	23	46		3	3	1	39	
MEDICAL SCIENCES	683	62	600	4	37	17	6	492	44
PUBLIC HEALTH AND EPIDEMIOLOGY	98	10	85		1	6	1	70	7
VETERINARY MEDICINE	27	12	14					14	
NURSING	32	1	30					29	1
PARASITOLOGY	13	3	10				1	9	
ENVIRONMENTAL HEALTH	31	2	28		4	2		21	1
PATHOLOGY	90	4	86		1	2		78	5
PHARMACOLOGY	213	12	198	3	10	6		159	20
PHARMACY	72	9	61	1	18	1	2	38	1
MEDICAL SCIENCES, GENERAL	15	3	11					10	1
MEDICAL SCIENCES, OTHER	92	6	77		3		2	64	8

TABLE 1A. CONTINUED

SUBFIELD OF DOCTORATE	TOTAL DOCTORATES	NON-U.S. CITIZENS TEMP. VISAS	U.S. CITIZENS AND NON-U.S. WITH PERMANENT VISAS RACIAL/ETHNIC GROUP 1/						
			TOTAL	AMERICAN INDIAN	ASIAN	BLACK	HISPANIC 2/	WHITE	OTHER & UNKNOWN
SOCIAL SCIENCES (INCL PSYCH)	**6453**	**535**	**5613**	**27**	**118**	**212**	**115**	**4806**	**335**
ANTHROPOLOGY	399	32	354	3	5	5	8	306	27
COMMUNICATIONS	270	23	239	2	4	7	6	211	9
SOCIOLOGY	610	55	543	4	16	29	13	451	30
ECONOMICS	778	178	569	2	32	6	7	484	38
ECONOMETRICS	23	7	15		2			12	1
STATISTICS	46	15	29		9			19	1
GEOGRAPHY	158	28	128		3	2	2	112	9
AREA STUDIES	26	4	21		1	3	2	15	
POLITICAL SCIENCE	603	52	536		11	27	9	452	37
PUBLIC ADMINISTRATION	156	24	120			17	4	88	11
INTERNATIONAL RELATIONS	92	19	72		2	4	3	59	4
URBAN AND REGIONAL PLANNING	76	11	63		3	6	4	48	2
SOCIAL SCIENCES, GENERAL	33	5	27		1	4	1	17	4
SOCIAL SCIENCES, OTHER	134	21	110	2	2	3	5	93	5
PSYCHOLOGY	3049	61	2787	14	27	99	51	2439	157
CLINICAL	1066	12	911	5	2	41	19	819	25
COUNSELING AND GUIDANCE	272	7	265	1	2	9	3	237	13
DEVELOP AND GERONTOL	207	3	202		3	4	1	185	9
EDUCATIONAL	144	3	139	2	4	6	3	117	7
SCHOOL PSYCHOLOGY	125		124			4	2	112	6
EXPERIMENTAL	300	9	291	2	2	5	3	269	10
COMPARATIVE	20		20		1			19	
PHYSIOLOGICAL	126	6	120	2	3	4	4	102	5
INDUSTRIAL AND PERSONNEL	74	2	71		1	1		68	1
PERSONALITY	42	1	41	1	2	1	2	31	4
PSYCHOMETRICS	15	1	14		1		1	11	1
SOCIAL	203	8	195		2	9	4	169	11
PSYCHOLOGY, GENERAL	294	3	244		1	6	4	179	54
PSYCHOLOGY, OTHER	161	6	150	1	3	9	5	121	11
HUMANITIES	**4235**	**197**	**3920**	**20**	**46**	**90**	**124**	**3409**	**231**
ART, HISTORY AND CRITICISM	151	4	144		2			135	7
HISTORY, AMERICAN	322	4	315	3	1	17	4	277	13
HISTORY, EUROPEAN	215	5	210				2	200	8
HISTORY, OTHER	291	25	249	1	9	14	16	185	24
HISTORY AND PHILOSOPHY OF SCIENCE	25	2	23					23	
AMERICAN STUDIES	82	5	74			5	1	63	5
THEATRE AND THEATRE CRITICISM	102	3	99				2	92	5
MUSIC	370	11	352	4	8	8	5	312	15
SPEECH AS A DRAMATIC ART	69		67			2	1	58	6
ARCHEOLOGY	32	1	31				2	28	1
RELIGION	191	10	175	1	3	5		153	13
PHILOSOPHY	289	11	269	2	3	4	6	244	10
LINGUISTICS	175	40	127	2	4	3	3	102	13
COMPARATIVE LITERATURE	114	6	100		1		3	89	7
LANGUAGES AND LITERATURE	1731	63	1621	6	11	31	79	1400	94
AMERICAN	212	1	211	1	2	5	1	192	10
ENGLISH	815	22	765	4	5	14	8	685	49
GERMAN	103	7	95			1	1	89	4
RUSSIAN	52	1	50		1			45	4
FRENCH	183	4	175			7	4	154	10
SPANISH AND PORTUGUESE	173	6	164	1		1	65	93	4
ITALIAN	23	3	20					19	1
CLASSICAL	67	4	61			1		59	1
OTHER LANGUAGES	103	15	80		3	2		64	11
HUMANITIES, GENERAL	25	2	22		2	1		14	5
HUMANITIES, OTHER	51	5	42	1	2			34	5
PROFESSIONAL FIELDS	**1454**	**195**	**1232**	**6**	**36**	**54**	**24**	**1043**	**69**
THEOLOGY	225	16	209	3	5	3	1	180	17
BUSINESS ADMINISTRATION	711	130	569	1	19	20	8	496	25
HOME ECONOMICS	81	5	76		2	6	2	63	3
JOURNALISM	22	1	21			2		16	3
SPEECH AND HEARING SCIENCES	143	4	137	1	1	4	3	123	5
LAW, JURISPRUDENCE	22	12	5					5	
SOCIAL WORK	173	11	157		7	17	6	116	11
LIBRARY AND ARCHIVAL SCIENCE	57	11	43	1	2	2	3	31	4
PROFESSIONAL FIELDS, OTHER	20	5	15				1	13	1

TABLE 1A. CONTINUED

SUBFIELD OF DOCTORATE	TOTAL DOCTORATES	NON-U.S. CITIZENS TEMP. VISAS	U.S. CITIZENS AND NON-U.S. WITH PERMANENT VISAS RACIAL/ETHNIC GROUP 1/						
			TOTAL	AMERICAN INDIAN	ASIAN	BLACK	HISPANIC 2/	WHITE	OTHER & UNKNOWN
EDUCATION	**7190**	**412**	**6609**	**56**	**87**	**598**	**160**	**5381**	**327**
FOUNDATIONS: SOCIAL, PHILOS	237	24	208	2	4	14	4	172	12
EDUCATIONAL PSYCHOLOGY	445	25	417	4	9	19	12	358	15
ELEMENTARY EDUCATION, GENERAL	217	4	213		3	13	2	190	5
SECONDARY EDUCATION, GENERAL	133	12	120		2	7	2	106	3
HIGHER EDUCATION	612	24	587	3	11	71	12	473	17
ADULT EDUC AND EXTENSION EDUC	200	10	187	1	2	15	4	158	7
EDUCATIONAL MEAS AND STATISTICS	97	8	89		2	5	1	77	4
CURRICULUM AND INSTRUCTION	807	63	738	10	9	63	29	599	28
EDUCATIONAL ADMIN AND SUPERVISION	1453	65	1375	12	15	157	50	1083	58
GUIDANCE,COUNS,STUDENT PERSONNEL	561	14	545	3	2	49	11	452	28
SPECIAL ED (GIFTED,HANDICAPPED,ETC)	311	12	297	1	2	18	6	249	21
AUDIO-VISUAL MEDIA	91	9	80	3	4	4		68	1
TEACHING FIELDS	1351	95	1239	9	15	96	8	1045	66
AGRICULTURE	35	12	23			2		19	2
ART	48	5	43			5		36	2
BUSINESS	62	4	57		1	7		45	4
ENGLISH	80	7	71			7		63	1
FOREIGN LANGUAGE	36	5	31		4	3	1	23	
HOME ECONOMICS	26	2	24	1		4		18	1
INDUSTRIAL ARTS	43	6	35		1	1		30	3
MATHEMATICS	57	2	55	1		6	1	46	1
MUSIC	86	2	84	1	1	7		73	2
PHYS ED, HEALTH, AND REC	324	27	294	4	1	13	3	253	20
READING	142	3	137		3	12		115	7
SCIENCE	101	12	88		2	5		76	5
SOCIAL SCIENCE	46	2	44		2	3		37	2
SPEECH	20		19			1		17	1
VOCATIONAL	199	2	195	2		16	3	162	12
OTHER TEACHING FIELDS	46	4	39			4		32	3
EDUCATION, GENERAL	431	30	294	6	3	45	9	103	48
EDUCATION, OTHER	244	17	220	2	4	22	10	168	14
OTHER AND UNSPECIFIED	**15**	**3**	**12**		**1**			**10**	**1**

SOURCE: NRC, Commission on Human Resources, Doctorate Records File.

TABLE 2
STATISTICAL PROFILE OF DOCTORATE RECIPIENTS BY FIELD OF DOCTORATE, FY 1978 1/

TOTAL ALL DOCTORATES

	FY 1978 TOTAL	PHYSICS AND ASTRONOMY	CHEMISTRY	EARTH, ENVIRONM. AND MARINE SCIENCES	PHYSICAL SCIENCES	MATHEMATICS	COMPUTER SCIENCES	ENGINEERING	EMP FIELDS	BASIC MEDICAL SCIENCES	OTHER BIOSCIENCES	BIOSCIENCES	MEDICAL SCIENCES	AGRICULTURAL SCIENCES
NUMBER IN FIELD	30850	1066	1545	623	3234	838	121	2423	6616	1836	1356	3192	683	1012
MALE %	73.1	95.1	87.3	90.2	90.4	85.7	90.9	97.8	92.5	74.8	74.0	74.5	71.2	93.1
FEMALE %	26.9	4.9	12.7	9.8	9.6	14.3	9.1	2.2	7.5	25.2	26.0	25.5	28.8	6.9
U.S. CITIZENSHIP %	81.6	75.3	75.9	83.1	77.1	73.9	70.2	52.0	67.4	84.7	84.9	84.8	82.7	61.4
FOREIGN CITIZENSHIP %	15.4	23.0	21.7	14.4	20.7	24.1	25.6	45.1	30.2	12.9	12.2	12.6	14.2	37.1
UNKNOWN %	2.9	1.7	2.4	2.4	2.2	2.0	4.1	3.0	2.5	2.5	2.9	2.7	3.1	1.6
MARRIED %	63.4	58.6	59.8	63.6	60.1	53.6	56.2	64.9	61.0	59.8	63.1	61.2	61.1	76.1
NOT MARRIED %	31.7	37.4	36.3	32.4	35.9	43.1	38.8	30.3	34.8	36.1	31.8	34.3	31.8	21.4
UNKNOWN %	4.9	3.9	3.9	4.0	3.9	3.3	5.0	4.8	4.2	4.1	5.2	4.5	7.2	2.5
MEDIAN AGE AT DOCTORATE	31.7	29.6	28.7	30.5	29.3	29.3	30.1	30.2	29.6	29.0	30.4	29.5	30.5	31.2
PERCENT WITH BACC IN SAME FIELD AS DOCTORATE	54.5	82.1	85.8	48.5	77.4	79.7	8.3	78.2	76.7	18.8	64.7	38.3	23.7	60.8
PERCENT WITH MASTERS	81.4	66.7	43.6	77.4	57.7	79.4	83.5	90.2	72.8	42.7	68.7	53.7	57.4	91.8
MEDIAN TIME LAPSE FROM BACC TO DOCT														
TOTAL TIME YRS	8.9	7.3	6.3	7.9	6.9	7.1	7.9	7.5	7.2	6.6	7.8	7.0	7.7	8.0
REGISTERED TIME YRS	6.1	6.2	5.3	6.1	5.7	5.8	5.7	5.6	5.7	5.6	6.0	5.8	5.6	5.4
POSTDOCTORAL STUDY PLANS %	17.9	49.3	46.3	30.2	44.2	12.2	9.9	16.3	29.3	75.9	42.2	61.6	38.5	14.1
FELLOWSHIP	8.9	16.2	19.4	12.2	17.0	5.1	4.1	5.3	11.0	49.0	24.9	38.8	22.3	4.3
RESEARCH ASSOC	6.6	31.5	24.7	17.3	25.5	4.4	4.1	9.4	16.5	19.4	13.7	17.0	8.6	9.2
TRAINEESHIP	.9	.7	.5	.3	.5	1.0	.8	.7	.6	2.4	1.2	1.9	2.5	.3
OTHER	1.5	.9	1.7	.3	1.2	1.7	.8	.9	1.2	5.1	2.4	3.9	5.1	.3
PLANNED EMPLOYMENT AFTER DOCTORATE %	74.4	43.7	47.5	64.8	49.6	81.6	82.6	76.6	64.1	19.2	49.7	32.2	52.4	81.4
EDUC INSTITUTION	47.5	13.1	10.6	23.3	13.9	59.5	47.9	21.6	23.1	10.3	34.2	20.5	27.8	43.4
INDUSTRY/BUSINESS	10.6	19.2	31.6	18.9	25.1	13.8	26.4	39.8	29.1	4.6	4.9	4.8	10.7	16.0
GOVERNMENT	8.6	8.2	3.4	17.3	7.6	5.1	5.8	11.5	8.7	2.6	7.3	4.6	9.1	17.3
NONPROFIT	4.4	1.1	.7	1.6	1.0	.7	.8	1.4	1.1	1.1	1.4	1.3	3.2	1.9
OTHER & UNKNOWN	3.3	2.1	1.3	3.7	2.0	2.4	1.7	2.4	2.2	.5	1.8	1.1	1.6	2.9
POSTDOCT STATUS UNKN %	7.7	6.9	6.2	5.0	6.2	6.2	7.4	7.1	6.5	4.9	8.1	6.3	9.1	4.4
DEFINITE POSTDOCTORAL STUDY	13.1	38.4	35.9	20.7	33.8	8.9	7.4	10.6	21.7	63.3	31.0	49.6	31.0	7.9
SEEKING POSTDOCTORAL STUDY	4.8	11.0	10.4	9.5	10.4	3.2	2.5	5.8	7.6	12.6	11.1	12.0	7.5	6.2
DEFINITE EMPLOYMENT	53.5	31.5	37.2	49.9	37.8	59.7	64.5	58.6	48.7	13.6	33.8	22.1	39.2	61.6
SEEKING EMPLOYMENT	20.9	12.2	10.3	14.9	11.8	22.0	18.2	18.0	15.5	5.7	15.9	10.0	13.2	19.9
EMPLOYMENT ACTIVITY AFTER DOCTORATE %														
PRIMARY ACTIVITY														
R & D	22.5	66.7	70.8	51.4	64.7	34.4	48.7	60.7	57.9	48.2	36.9	40.9	42.5	52.5
TEACHING	43.6	19.3	17.2	22.8	19.2	52.4	41.0	19.7	25.1	28.1	46.3	39.9	29.9	25.4
ADMINISTRATION	13.1	3.0	1.0	4.2	2.4	2.2	1.3	2.5	2.4	1.6	1.7	1.7	8.6	3.0
PROF. SERVICES	10.0	2.1	3.8	7.7	4.3	3.6	.0	4.9	4.4	9.2	6.3	7.4	7.8	5.3
OTHER	2.7	2.4	1.6	6.4	3.0	2.0	2.6	3.1	2.9	4.0	2.6	3.1	2.6	3.7
ACTIVITY UNKNOWN	8.1	6.5	5.6	7.4	6.3	5.4	6.4	9.0	7.4	8.8	6.1	7.1	8.6	10.1
SECONDARY ACTIVITY														
R & D	26.2	14.3	11.8	24.8	15.8	40.8	34.6	17.7	21.0	21.3	34.7	30.0	26.1	21.2
TEACHING	10.6	4.8	3.0	10.9	5.5	16.8	17.9	8.7	9.0	18.5	13.5	15.3	13.1	18.1
ADMINISTRATION	8.6	7.4	11.7	8.4	9.7	2.2	2.6	6.4	6.9	9.2	7.2	7.9	14.6	7.9
PROF. SERVICES	6.2	3.9	4.2	6.1	4.6	3.0	3.8	5.5	4.7	3.2	7.0	5.7	6.3	6.1
OTHER	2.1	.0	.9	1.6	.8	.8	1.3	1.3	1.0	1.6	.4	.8	1.1	.8
NO SECONDARY ACTIVITY	38.3	63.1	63.0	40.8	57.4	31.0	33.3	51.4	50.1	37.3	31.0	33.2	30.2	35.8
UNKNOWN	8.1	6.5	5.6	7.4	6.3	5.4	6.4	9.0	7.4	8.8	6.1	7.1	8.6	10.1
REGION OF EMPLOYMENT AFTER DOCTORATE %														
NEW ENGLAND	6.2	6.3	6.3	5.5	6.1	7.6	3.8	6.8	6.6	3.6	5.9	5.1	4.1	2.2
MIDDLE ATLANTIC	15.2	19.3	22.1	10.0	18.2	19.8	15.4	18.4	18.5	13.7	11.4	12.2	10.7	6.7
EAST NO CENTRAL	14.7	11.3	19.0	7.1	13.8	16.6	19.2	13.2	14.1	18.1	13.1	14.9	12.3	10.1
WEST NO CENTRAL	7.1	2.4	5.4	2.3	3.8	5.8	1.3	3.5	3.9	6.0	7.2	6.8	7.8	8.3
SOUTH ATLANTIC	15.4	14.6	15.1	11.9	14.2	13.8	14.1	11.3	12.8	16.5	15.9	16.1	18.7	12.0
EAST SO CENTRAL	5.2	2.4	4.2	3.5	3.5	4.4	3.8	3.4	3.6	6.0	5.2	5.5	3.0	5.5
WEST SO CENTRAL	8.0	4.8	9.6	19.9	10.9	7.4	5.1	7.3	8.6	7.2	7.6	7.5	9.3	8.5
MOUNTAIN	5.3	9.5	2.3	14.8	7.4	5.2	6.4	5.1	6.1	1.6	6.8	5.0	2.2	4.8
PACIFIC & INSULAR	10.3	19.6	7.3	16.4	13.0	8.8	21.8	15.9	13.9	10.0	10.9	10.6	10.4	9.6
FOREIGN	8.9	6.3	5.7	6.4	6.1	8.4	3.8	12.5	9.2	14.1	12.0	12.7	10.4	29.1
REGION UNKNOWN	3.8	3.6	3.1	2.3	3.0	2.2	5.1	2.5	2.7	3.2	3.9	3.7	3.0	3.0

1/ Refer to explanatory note on page 20 and the description of doctoral field groupings inside back cover.

TABLE 2. CONTINUED

TOTAL ALL DOCTORATES

LIFE SCIENCES	PSYCHOLOGY	ECONOMICS	ANTHROPOLOGY & SOCIOLOGY	POLIT. SCI., PUBLIC ADMIN., INTERN'L REL.	OTHER SOCIAL SCIENCES	SOCIAL SCIENCES INCL. PSYCHOL.	TOTAL SCIENCES	HISTORY	ENG. AND AMER. LANG. AND LIT.	FOREIGN LANG. AND LIT.	OTHER HUMANITIES	HUMANITIES	PROFESSIONAL FIELDS	EDUCATION	TOTAL NON-SCIENCES	OTHER OR UNSPECIFIED 2/
4887	3049	801	1009	851	743	4453	17956	853	1027	704	1651	4235	1454	7190	12879	15
77.9	63.2	88.4	61.6	82.4	73.4	69.8	80.4	77.5	53.0	46.7	66.8	62.3	77.3	60.3	62.9	53.3
22.1	36.8	11.6	38.4	17.6	26.6	30.2	19.6	22.5	47.0	53.3	33.2	37.7	22.7	39.7	37.1	46.7
79.6	89.7	66.3	85.0	80.7	78.6	83.6	76.5	91.9	92.7	84.5	87.9	89.3	80.3	90.1	88.8	
17.9	3.7	29.7	12.5	16.0	18.8	11.7	20.2	5.7	4.6	12.8	9.0	7.9	17.8	7.5	8.8	
2.5	6.6	4.0	2.5	3.3	2.6	4.7	3.3	2.3	2.7	2.7	3.1	2.8	1.9	2.4	2.4	
64.3	54.5	63.8	60.5	64.0	65.8	59.2	61.2	61.8	59.1	57.7	58.5	59.2	71.3	69.7	66.4	
31.3	36.6	29.8	35.3	28.4	30.4	33.8	33.5	32.9	35.4	37.2	36.4	35.6	25.7	26.0	29.1	
4.5	8.8	6.4	4.3	7.5	3.8	7.1	5.3	5.3	5.5	5.1	5.1	5.2	3.0	4.2	4.4	
30.0	30.1	30.6	32.0	32.6	32.1	30.9	30.2	33.1	32.4	33.2	32.7	32.8	34.0	36.5	34.8	
40.9	64.3	63.4	57.1	53.9	29.2	57.7	60.1	67.1	76.7	63.4	50.9	62.5	35.8	39.7	46.8	
62.1	76.1	77.7	86.9	86.7	91.9	81.2	72.9	89.8	86.6	88.8	87.5	88.0	92.6	96.2	93.1	
7.3	7.4	8.1	9.1	9.6	9.1	8.2	7.5	10.5	9.9	10.4	10.1	10.2	10.7	12.7	11.5	
5.7	5.7	5.7	6.8	6.5	5.8	6.0	5.8	7.7	7.4	7.3	7.0	7.3	6.3	6.5	6.8	
48.5	16.0	4.2	12.7	4.7	5.5	11.3	28.1	5.6	4.1	6.7	5.6	5.4	2.3	3.0	3.7	
29.3	8.5	2.4	7.8	2.5	2.3	6.1	14.2	2.7	1.6	2.8	2.4	2.3	.9	1.0	1.4	
14.2	2.9	1.5	2.8	1.5	1.6	2.4	10.8	1.5	.1	.3	1.0	.8	.8	.7	.7	
1.6	2.9	.0	.6	.0	.7	1.5	1.2	.0	.2	.1	.2	.1	.3	.5	.4	
3.4	1.7	.4	1.5	.7	.9	1.3	1.8	1.4	2.2	3.4	2.0	2.2	.3	.8	1.2	
45.2	72.6	87.0	79.2	83.5	88.6	78.7	64.2	84.3	85.7	82.1	85.0	84.6	93.1	90.0	88.6	
26.3	31.8	55.9	64.4	57.0	63.1	46.8	32.5	64.0	71.9	67.2	68.8	68.3	68.4	68.5	68.4	
7.9	7.7	9.5	2.8	4.5	7.8	6.8	15.3	4.5	5.1	5.0	4.7	4.8	6.6	3.2	4.1	
7.9	13.0	14.2	4.3	14.3	9.8	11.6	9.5	6.1	1.8	2.6	2.7	3.1	4.9	10.2	7.3	
1.7	14.2	3.5	3.9	3.4	3.8	8.6	4.0	3.9	1.4	2.0	5.0	3.4	11.1	4.6	5.0	
1.5	5.9	3.9	3.9	4.3	4.0	4.9	3.0	5.9	5.6	5.4	3.8	4.9	2.1	3.5	3.8	
6.3	11.3	8.7	8.1	11.8	5.9	9.9	7.7	10.1	10.2	11.2	9.3	10.0	4.6	7.0	7.7	
38.4	11.8	2.9	7.5	1.9	3.1	7.7	21.2	3.4	1.8	2.7	2.8	2.7	1.7	1.5	1.9	
10.1	4.3	1.4	5.2	2.8	2.4	3.6	6.9	2.2	2.3	4.0	2.8	2.8	.6	1.5	1.8	
32.7	48.1	69.4	55.5	61.5	68.0	55.9	46.9	53.0	52.2	48.0	56.2	53.2	78.2	65.2	62.7	
12.5	24.5	17.6	23.7	22.1	20.6	22.8	17.3	31.3	33.5	34.1	28.6	31.3	14.9	24.8	25.8	
45.7	16.4	28.8	20.9	11.1	18.2	18.5	38.7	6.0	1.9	4.4	4.2	4.0	8.6	5.7	5.7	
32.5	26.5	53.8	64.3	61.0	59.8	46.2	35.6	63.9	78.7	73.7	76.4	74.0	61.2	39.1	52.0	
3.4	4.8	4.1	3.9	13.8	6.7	6.1	4.2	10.0	7.5	5.6	4.1	6.3	8.1	33.6	22.4	
6.6	44.5	3.2	1.8	2.3	5.0	19.9	11.4	4.2	3.4	4.4	5.2	4.4	9.1	10.4	8.5	
3.3	1.2	2.7	1.3	3.8	2.8	2.0	2.6	6.9	2.8	2.4	3.8	3.9	4.3	1.9	2.8	
8.5	6.5	7.4	7.9	8.0	7.5	7.2	7.5	9.1	5.8	9.5	6.4	7.2	8.7	9.3	8.6	
25.9	27.8	44.1	47.7	38.6	40.2	36.7	28.6	33.6	29.3	33.1	30.6	31.3	39.1	16.0	23.5	
16.0	13.0	10.3	9.5	7.1	9.1	10.6	11.0	7.1	5.2	4.4	5.3	5.5	10.1	12.3	10.1	
9.0	10.0	6.7	5.4	7.1	9.3	8.2	7.9	7.1	7.5	7.1	6.7	7.0	7.7	10.9	9.3	
5.9	8.3	3.2	3.0	3.6	4.6	5.5	5.3	3.1	2.6	1.5	4.7	3.4	7.0	9.0	7.2	
.9	2.5	1.3	.9	1.7	2.6	2.0	1.4	1.3	1.9	2.7	7.5	4.2	1.9	2.3	2.8	
33.7	31.9	27.2	25.7	33.8	26.7	29.8	38.3	38.7	47.8	41.7	38.8	41.3	25.4	40.1	38.4	
8.5	6.5	7.4	7.9	8.0	7.5	7.2	7.5	9.1	5.8	9.5	6.4	7.2	8.7	9.3	8.6	
3.8	7.1	8.8	6.8	6.7	5.0	7.0	6.2	8.2	9.1	12.1	7.1	8.6	5.2	5.4	6.3	
11.1	19.5	15.3	16.3	19.1	12.3	17.3	16.6	19.2	17.4	18.9	16.2	17.5	10.9	12.8	13.8	
12.6	16.4	10.6	15.5	11.9	15.8	14.6	14.0	11.9	14.4	15.7	16.4	14.9	15.0	15.8	15.4	
7.6	8.7	4.9	8.0	6.1	8.1	7.5	6.2	5.8	5.2	4.7	9.5	7.0	7.3	8.7	8.0	
15.0	13.9	22.3	12.9	21.8	15.2	16.4	14.7	18.1	17.5	14.8	13.5	15.6	15.6	16.6	16.2	
5.1	4.8	4.1	4.6	3.3	3.4	4.2	4.2	4.4	7.1	3.3	4.6	5.0	7.7	6.5	6.2	
8.2	5.3	4.3	4.1	6.7	6.5	5.3	7.1	6.9	9.3	4.4	8.2	7.6	10.6	9.0	8.8	
4.4	5.3	3.1	6.3	2.9	5.1	4.7	5.2	4.4	6.0	3.0	2.9	3.9	4.4	6.2	5.3	
10.2	11.9	7.9	9.1	8.2	10.5	10.1	11.6	8.6	6.7	10.1	10.0	9.0	10.1	8.6	8.9	
18.7	2.8	16.9	12.3	8.8	14.1	8.9	10.9	8.2	3.4	7.4	8.8	7.2	10.7	5.7	6.8	
3.3	4.4	1.6	4.1	4.6	4.0	3.9	3.3	4.2	3.9	5.6	2.8	3.8	2.5	4.8	4.2	

2/ Statistics are not presented for this group because too few records contained the specified data.

SOURCE: NRC, Commission on Human Resources, Doctorate Records File.

TABLE 2
STATISTICAL PROFILE OF DOCTORATE RECIPIENTS BY FIELD OF DOCTORATE, FY 1978 1/

DOCTORATES: MEN

	FY 1978 TOTAL	PHYSICS AND ASTRONOMY	CHEMISTRY	EARTH, ENVIRONM. AND MARINE SCIENCES	PHYSICAL SCIENCES	MATHEMATICS	COMPUTER SCIENCES	ENGINEERING	EMP FIELDS	BASIC MEDICAL SCIENCES	OTHER BIOSCIENCES	BIOSCIENCES	MEDICAL SCIENCES	AGRICULTURAL SCIENCES
TOTAL MALE	22537	1014	1349	562	2925	718	110	2370	6123	1373	1004	2377	486	942
MALE AS A PERCENT OF TOTAL DOCTORATES	73.1	95.1	87.3	90.2	90.4	85.7	90.9	97.8	92.5	74.8	74.0	74.5	71.2	93.1
U.S. CITIZENSHIP %	79.3	76.3	75.9	82.6	77.3	73.5	70.9	51.9	66.9	85.3	85.5	85.4	81.3	62.0
FOREIGN CITIZENSHIP %	17.8	22.0	21.3	15.1	20.4	24.4	25.5	45.1	30.5	12.0	11.9	11.9	15.6	36.5
UNKNOWN %	2.9	1.7	2.7	2.3	2.3	2.1	3.6	3.0	2.6	2.7	2.7	2.7	3.1	1.5
MARRIED %	67.2	58.2	60.6	66.4	60.9	53.1	57.3	65.0	61.5	62.7	65.5	63.9	67.9	77.2
NOT MARRIED %	27.9	37.7	35.3	29.7	35.0	43.5	38.2	30.1	34.2	32.9	29.8	31.6	24.3	20.5
UNKNOWN %	5.0	4.1	4.2	3.9	4.1	3.5	4.5	4.9	4.3	4.4	4.7	4.5	7.8	2.3
MEDIAN AGE AT DOCTORATE	31.4	29.6	28.8	30.5	29.3	29.3	30.1	30.2	29.7	28.9	30.5	29.5	30.0	31.2
PERCENT WITH BACC IN SAME FIELD AS DOCTORATE	56.1	82.2	85.8	49.5	77.6	79.5	8.2	78.6	77.0	19.4	65.4	38.8	20.8	63.0
PERCENT WITH MASTERS	80.1	66.8	42.8	77.9	57.9	78.4	81.8	90.0	73.2	42.8	69.6	54.1	52.5	91.8
MEDIAN TIME LAPSE FROM BACC TO DOCT														
TOTAL TIME YRS	8.6	7.3	6.4	7.9	7.0	7.1	7.9	7.5	7.2	6.5	7.7	6.9	7.2	8.0
REGISTERED TIME YRS	6.0	6.2	5.3	6.1	5.8	5.8	5.7	5.6	5.7	5.6	6.0	5.8	5.5	5.4
POSTDOCTORAL STUDY PLANS %	19.2	49.4	46.5	30.4	44.4	13.1	10.0	16.5	29.3	75.6	40.8	60.9	41.6	13.7
FELLOWSHIP	9.2	16.3	19.3	12.3	16.9	5.4	4.5	5.4	10.9	48.5	23.9	38.1	23.9	4.2
RESEARCH ASSOC	7.6	31.6	25.1	17.4	25.8	4.6	3.6	9.4	16.6	19.2	13.5	16.8	9.9	8.8
TRAINEESHIP	.9	.7	.4	.4	.5	1.1	.9	.7	.7	2.4	1.3	1.9	2.7	.3
OTHER	1.5	.9	1.7	.4	1.2	1.9	.9	1.0	1.2	5.5	2.1	4.1	5.1	.3
PLANNED EMPLOYMENT AFTER DOCTORATE %	73.7	43.8	47.0	64.8	49.3	80.5	82.7	76.5	64.1	19.2	52.3	33.2	50.2	82.2
EDUC INSTITUTION	44.8	13.3	10.1	23.5	13.8	58.4	47.3	21.4	22.6	10.0	35.3	20.7	24.3	43.9
INDUSTRY/BUSINESS	12.5	19.2	32.4	18.3	24.1	13.9	27.3	39.9	29.6	5.2	5.8	5.4	13.2	16.1
GOVERNMENT	9.4	8.2	3.1	18.0	7.7	5.6	6.4	11.5	8.9	2.7	8.2	5.0	8.6	17.7
NONPROFIT	4.2	1.1	.5	1.6	.9	.6	.9	1.4	1.1	1.2	1.1	1.1	2.5	1.7
OTHER & UNKNOWN	2.8	2.0	.9	3.4	1.7	2.1	.9	2.4	2.0	.2	2.0	1.0	1.6	2.7
POSTDOCT STATUS UNKN %	7.1	6.8	6.5	4.8	6.3	6.4	7.3	7.0	6.6	5.2	6.9	5.9	8.2	4.1
DEFINITE POSTDOCTORAL STUDY	14.4	38.7	36.2	21.5	34.3	9.7	7.3	10.6	21.8	64.2	30.5	50.0	34.0	8.0
SEEKING POSTDOCTORAL STUDY	4.8	10.7	10.2	8.9	10.2	3.3	2.7	5.8	7.5	11.4	10.4	10.9	7.6	5.7
DEFINITE EMPLOYMENT	54.7	31.6	37.7	50.4	38.0	58.8	67.3	58.5	48.9	14.1	36.8	23.7	38.9	62.5
SEEKING EMPLOYMENT	19.0	12.2	9.3	14.4	11.3	21.7	15.5	18.1	15.2	5.1	15.5	9.5	11.3	19.6
EMPLOYMENT ACTIVITY AFTER DOCTORATE %														
PRIMARY ACTIVITY														
R & D	25.9	66.3	71.5	51.6	64.9	34.6	50.0	61.1	58.5	47.9	38.5	41.7	42.9	53.1
TEACHING	40.5	20.0	16.3	23.0	19.1	53.1	40.5	19.3	24.5	27.8	43.1	37.8	28.0	25.1
ADMINISTRATION	13.0	3.1	1.2	3.9	2.4	2.6	1.4	2.6	2.5	1.5	1.1	1.2	7.4	3.2
PROF. SERVICES	9.0	1.9	3.7	7.1	4.1	3.6	.0	5.1	4.3	9.3	6.8	7.6	9.0	4.9
OTHER	2.9	2.5	1.4	6.4	3.0	1.4	2.7	3.0	2.8	4.1	3.0	3.4	3.2	3.9
ACTIVITY UNKNOWN	8.6	6.3	5.9	8.1	6.6	4.7	5.4	8.9	7.4	9.3	7.6	8.2	9.5	9.7
SECONDARY ACTIVITY														
R & D	25.4	14.4	11.8	24.4	15.8	41.9	33.8	17.6	20.7	19.6	32.8	28.2	26.5	21.1
TEACHING	10.5	4.7	2.8	11.0	5.4	15.9	17.6	8.8	8.8	17.0	13.3	14.6	10.6	18.5
ADMINISTRATION	8.6	7.5	12.6	8.5	10.1	2.1	2.7	6.4	7.1	8.8	7.9	8.2	13.8	8.0
PROF. SERVICES	6.0	4.1	4.1	6.4	4.7	2.6	4.1	5.6	4.8	4.1	6.8	5.9	6.3	6.1
OTHER	2.0	.0	1.0	1.4	.8	.9	1.4	1.3	1.1	1.5	.5	.9	1.6	.8
NO SECONDARY ACTIVITY	38.9	63.1	61.8	40.3	56.7	31.8	35.1	51.3	50.2	39.7	31.2	34.1	31.7	35.8
UNKNOWN	8.6	6.3	5.9	8.1	6.6	4.7	5.4	8.9	7.4	9.3	7.6	8.2	9.5	9.7
REGION OF EMPLOYMENT AFTER DOCTORATE %														
NEW ENGLAND	5.7	6.3	6.3	6.0	6.2	6.9	4.1	6.8	6.5	2.6	5.4	4.4	4.8	2.2
MIDDLE ATLANTIC	14.6	18.4	22.2	9.5	17.9	19.4	14.9	18.3	18.2	12.9	10.6	11.4	20.1	6.6
EAST NO CENTRAL	14.7	11.6	19.3	7.8	14.1	17.1	18.9	13.3	14.3	18.6	11.9	14.2	12.7	10.2
WEST NO CENTRAL	7.2	2.5	5.5	2.5	3.9	5.9	.0	3.5	3.9	5.7	6.5	6.2	10.1	8.8
SOUTH ATLANTIC	15.2	14.7	14.8	11.7	14.0	14.0	14.9	11.3	12.7	17.0	14.9	15.6	20.6	11.9
EAST SO CENTRAL	5.1	2.2	4.1	3.5	3.7	4.7	4.1	3.4	3.7	5.7	5.4	5.5	3.2	5.4
WEST SO CENTRAL	8.1	5.0	8.7	18.4	10.1	7.6	5.4	7.3	8.3	6.7	8.9	8.2	5.8	8.7
MOUNTAIN	5.4	9.7	2.2	15.9	7.8	4.5	6.8	5.2	6.1	2.1	6.5	5.0	2.1	4.9
PACIFIC & INSULAR	10.3	19.7	6.9	15.9	12.9	8.8	23.0	15.9	13.9	9.8	12.2	11.4	7.9	9.7
FOREIGN	10.2	6.3	6.1	7.1	6.4	8.8	4.1	12.6	9.5	16.0	13.3	14.2	10.6	28.7
REGION UNKNOWN	3.5	3.8	3.3	1.8	3.1	2.4	4.1	2.6	2.8	3.1	4.3	3.9	2.1	2.9

1/ Refer to explanatory note on page 20 and the description of doctoral fields inside back cover.

TABLE 2. CONTINUED

DOCTORATES: MEN

LIFE SCIENCES	PSYCHOLOGY	ECONOMICS	ANTHROPOLOGY & SOCIOLOGY	POLIT. SCI., PUBLIC ADMIN., INTERN'L REL.	OTHER SOCIAL SCIENCES	SOCIAL SCIENCES INCL. PSYCHOL.	TOTAL SCIENCES	HISTORY	ENG. AND AMER. LANG. AND LIT.	FOREIGN LANG. AND LIT.	OTHER HUMANITIES	HUMANITIES	PROFESSIONAL FIELDS	EDUCATION	TOTAL NON-SCIENCES	OTHER OR UNSPECIFIED 2/
3805	1926	708	622	701	545	4502	14430	661	544	329	1103	2637	1124	4338	8099	8
77.9	63.2	88.4	61.6	82.4	73.4	69.8	80.4	77.5	53.0	46.7	66.8	62.3	77.3	60.3	62.9	53.3
79.1	89.9	65.7	83.9	79.0	76.5	81.9	74.8	92.0	93.8	81.2	87.5	89.1	78.2	88.6	87.3	
18.5	3.9	29.9	13.8	17.5	20.9	13.6	22.1	5.7	3.9	16.4	9.2	8.2	19.8	9.0	10.2	
2.4	6.2	4.4	2.3	3.4	2.6	4.5	3.1	2.3	2.4	2.4	3.3	2.7	2.0	2.4	2.5	
67.7	60.0	64.8	65.0	66.6	70.6	63.8	63.8	63.2	62.7	57.1	61.0	61.4	75.6	79.5	73.1	
27.9	31.6	28.4	30.7	25.5	25.7	29.3	31.0	31.5	31.1	36.5	33.4	32.8	21.2	16.1	22.2	
4.4	8.4	6.8	4.3	7.8	3.7	6.9	5.1	5.3	6.3	6.4	5.6	5.8	3.2	4.4	4.7	
30.0	30.1	30.6	31.8	32.6	32.2	31.0	30.2	33.0	31.6	32.9	32.6	32.5	33.8	36.1	34.5	
42.5	66.0	63.7	59.0	53.4	31.6	58.6	62.1	68.4	76.5	56.8	51.4	61.5	35.3	37.9	45.3	
63.3	77.3	77.3	86.2	85.6	92.8	81.7	73.2	90.2	85.8	86.6	86.5	87.3	91.5	95.7	92.4	
7.2	7.3	8.0	8.8	9.6	9.0	8.1	7.5	10.3	9.3	10.3	10.0	10.0	10.4	12.4	11.2	
5.6	5.7	5.7	6.6	6.5	5.8	5.9	5.8	7.5	7.0	7.2	6.9	7.2	6.3	6.6	6.8	
46.8	16.0	4.2	10.8	5.1	5.5	10.5	28.0	5.3	3.7	6.7	4.9	5.0	2.0	3.0	3.5	
27.9	8.2	2.3	6.6	2.6	2.0	5.4	13.7	2.6	1.1	2.4	2.5	2.2	.7	1.0	1.4	
13.9	3.4	1.6	2.7	1.9	1.5	2.5	11.5	1.4	.2	.0	.8	.7	.6	.7	.7	
1.6	3.0	.0	.5	.0	.7	1.4	1.2	.0	.2	.3	.1	.1	.2	.6	.4	
3.3	1.5	.4	1.0	.7	1.3	1.1	1.7	1.4	2.2	4.0	1.5	1.9	.4	.7	1.0	
47.5	73.6	87.0	81.5	83.3	89.5	80.2	64.8	85.6	87.7	84.2	86.1	86.1	93.5	90.8	89.7	
26.9	31.2	55.4	65.8	55.8	62.8	47.4	31.4	65.2	73.2	69.9	68.8	68.9	67.1	68.7	68.6	
9.1	8.6	9.0	2.9	4.6	8.6	7.2	17.2	4.7	5.5	4.9	5.3	5.2	7.0	2.8	4.2	
8.6	14.7	14.7	5.1	15.5	10.8	13.1	10.1	6.5	2.4	3.3	2.8	3.7	5.2	11.6	8.2	
1.4	14.0	4.0	4.7	3.1	3.9	8.2	3.4	3.9	1.1	2.4	6.0	4.0	12.9	4.9	5.7	
1.5	5.1	4.0	3.1	4.3	3.5	4.3	2.6	5.3	5.5	3.6	3.2	4.2	1.3	2.7	3.0	
5.8	10.4	8.8	7.7	11.6	5.0	9.3	7.2	9.1	8.6	9.1	9.0	8.9	4.5	6.2	6.9	
37.5	11.6	3.1	6.6	2.0	3.5	7.1	21.3	3.0	1.7	3.3	2.7	2.7	1.5	1.7	2.0	
9.2	4.4	1.1	4.2	3.1	2.0	3.4	6.7	2.3	2.0	3.3	2.2	2.3	.4	1.3	1.5	
35.2	49.4	69.6	58.8	61.3	69.9	58.2	48.2	55.1	53.5	57.8	58.0	56.3	81.9	68.2	66.2	
12.2	24.1	17.4	22.7	22.0	19.6	22.0	16.5	30.6	34.2	26.4	28.1	29.8	11.6	22.7	23.4	
46.9	17.8	28.8	21.3	10.5	18.4	19.2	41.5	5.5	1.7	3.7	4.1	3.9	9.1	5.5	5.7	
30.9	25.5	52.7	62.8	60.9	58.5	46.5	34.0	63.2	77.7	73.7	73.9	72.0	60.0	33.9	48.9	
3.0	5.1	4.7	4.1	13.7	6.8	6.6	4.1	10.7	7.6	3.7	3.8	6.2	8.1	39.0	24.6	
6.6	43.3	3.4	2.2	2.8	4.5	17.8	9.8	4.4	3.1	4.2	6.9	5.2	8.8	9.1	8.0	
3.6	1.3	3.0	1.1	4.0	3.1	2.3	2.7	7.1	3.4	3.2	4.4	4.7	5.1	1.9	3.2	
9.0	7.0	7.3	8.5	8.1	8.7	7.7	7.8	9.1	6.5	11.6	7.0	8.0	8.8	10.7	9.6	
24.8	27.4	43.2	47.5	38.4	39.6	36.8	27.6	33.2	28.9	32.1	28.4	30.2	38.9	13.8	22.6	
15.7	13.2	10.8	8.7	7.2	8.4	10.5	10.7	8.2	4.8	3.2	5.5	5.7	10.6	12.3	10.2	
8.9	10.5	6.7	7.1	6.7	8.9	8.5	7.9	8.0	9.3	7.9	7.5	8.0	7.3	10.8	9.4	
6.0	8.7	2.6	3.6	3.3	4.5	5.3	5.2	3.0	2.7	2.1	5.5	3.9	7.1	8.5	7.0	
1.0	2.2	1.2	1.1	1.9	1.8	1.8	1.3	1.4	1.4	3.2	7.8	4.4	1.8	2.3	2.8	
34.5	30.9	28.2	23.5	34.4	28.1	29.5	39.4	37.1	46.4	40.0	38.3	39.8	25.5	41.7	38.4	
9.0	7.0	7.3	8.5	8.1	8.7	7.7	7.8	9.1	6.5	11.6	7.0	8.0	8.8	10.7	9.6	
3.5	5.5	8.3	7.1	5.3	4.2	6.0	5.8	7.7	6.5	13.7	5.5	7.3	4.3	5.1	5.6	
10.5	17.2	15.6	15.3	17.7	11.8	15.9	15.9	18.1	17.3	17.4	15.2	16.6	10.3	12.1	13.1	
12.2	16.9	10.3	14.8	13.0	15.5	14.5	14.0	11.3	15.5	20.0	16.9	15.6	13.8	16.1	15.6	
7.9	10.5	4.9	7.9	7.0	8.9	8.3	6.3	5.5	5.5	4.7	9.8	7.3	6.6	9.5	8.4	
14.7	14.0	22.9	13.1	21.6	13.9	16.8	14.6	18.4	18.6	14.7	14.1	16.1	16.8	15.5	15.9	
5.1	5.1	4.7	4.9	3.7	3.1	4.5	4.3	4.9	6.5	3.2	5.0	5.1	7.9	6.3	6.2	
8.1	6.2	4.1	3.8	6.3	6.8	5.6	7.2	7.7	11.7	3.7	8.8	8.4	11.2	9.0	9.2	
4.5	5.1	3.0	5.2	2.6	5.2	4.3	5.1	5.5	5.5	2.1	3.1	4.0	5.0	6.6	5.6	
10.1	12.5	6.9	9.3	7.9	10.5	10.0	11.7	7.4	6.5	8.9	8.9	8.1	10.2	8.4	8.6	
20.1	2.9	17.8	14.2	10.2	16.0	10.4	11.9	9.1	3.4	7.4	9.8	8.1	11.4	6.8	7.9	
3.2	4.0	1.4	4.4	4.7	3.9	3.7	3.2	4.4	2.7	4.2	3.0	3.4	2.4	4.7	3.9	

2/ Statistics are not presented because too few records contained the specified data.

SOURCE: NRC, Commission on Human Resources, Doctorate Records File.

TABLE 2
STATISTICAL PROFILE OF DOCTORATE RECIPIENTS BY FIELD OF DOCTORATE, FY 1978 1/

DOCTORATES: WOMEN

	FY 1978 TOTAL	PHYSICS AND ASTRONOMY	CHEMISTRY	EARTH, ENVIRONM. AND MARINE SCIENCES	PHYSICAL SCIENCES	MATHEMATICS	COMPUTER SCIENCES 2/	ENGINEERING	ENP FIELDS	BASIC MEDICAL SCIENCES	OTHER BIOSCIENCES	BIOSCIENCES	MEDICAL SCIENCES	AGRICULTURAL SCIENCES
TOTAL FEMALE	8313	52	196	61	309	120	11	53	493	463	352	815	197	70
FEMALE AS A PERCENT OF TOTAL DOCTORATES	26.9	4.9	12.7	9.8	9.6	14.3	9.1	2.2	7.5	25.2	26.0	25.5	28.8	6.9
U.S. CITIZENSHIP %	88.0	55.8	76.0	88.5	75.1	75.8		56.6	73.0	82.9	83.2	83.1	86.3	52.9
FOREIGN CITIZENSHIP %	9.0	42.3	24.0	8.2	23.9	22.5		41.5	25.6	15.3	13.1	14.4	10.7	44.3
UNKNOWN %	3.0	1.9	.0	3.3	1.0	1.7		1.9	1.4	1.7	3.7	2.6	3.0	2.9
MARRIED %	53.2	67.3	54.6	37.7	53.4	56.7		58.5	54.6	51.2	56.0	53.3	44.2	61.4
NOT MARRIED %	42.0	32.7	43.4	57.4	44.3	40.8		37.7	42.8	45.6	37.5	42.1	50.3	34.3
UNKNOWN %	4.8	.0	2.0	4.9	2.3	2.5		3.8	2.6	3.2	6.5	4.7	5.6	4.3
MEDIAN AGE AT DOCTORATE	32.9	29.2	28.2	30.3	28.5	29.3		29.7	28.9	29.1	30.1	29.6	31.8	31.2
PERCENT WITH BACC IN SAME FIELD AS DOCTORATE	50.4	78.8	85.7	39.3	75.4	80.8		56.6	73.2	17.1	62.8	36.8	31.0	31.4
PERCENT WITH MASTERS	84.8	65.4	48.5	72.1	56.0	85.0		96.2	68.4	42.3	65.9	52.5	69.5	91.4
MEDIAN TIME LAPSE FROM BACC TO DOCT														
TOTAL TIME YRS	10.1	7.4	6.2	7.5	6.6	7.2		7.4	6.8	6.9	8.1	7.4	9.1	8.3
REGISTERED TIME YRS	6.3	6.8	5.2	6.1	5.5	5.5		5.6	5.5	5.6	6.1	5.8	5.9	5.8
POSTDOCTORAL STUDY PLANS %	14.4	48.1	44.9	27.9	42.1	6.7		11.3	29.4	76.7	46.0	63.4	31.0	20.0
FELLOWSHIP	7.9	15.4	20.4	11.5	17.8	3.3		3.8	12.4	50.5	27.6	40.6	18.3	5.7
RESEARCH ASSOC	3.8	30.8	21.9	16.4	22.3	3.3		7.5	15.8	20.1	14.2	17.5	5.6	14.3
TRAINEESHIP	.9	.0	.5	.0	.3	.0		.0	.2	2.4	.9	1.7	2.0	.0
OTHER	1.8	1.9	2.0	.0	1.6	.0		.0	1.0	3.7	3.4	3.6	5.1	.0
PLANNED EMPLOYMENT AFTER DOCTORATE %	76.2	42.3	51.0	65.6	52.4	88.3		79.2	64.7	19.2	42.3	29.2	57.9	71.4
EDUC INSTITUTION	54.9	9.6	13.8	21.3	14.6	66.7		32.1	30.0	11.4	31.3	20.0	36.5	35.7
INDUSTRY/BUSINESS	5.5	19.2	26.0	24.6	24.6	13.3		34.0	22.7	3.0	2.6	2.8	4.6	14.3
GOVERNMENT	6.2	7.7	5.1	11.5	6.8	2.5		11.3	6.1	2.4	4.8	3.4	10.2	11.4
NONPROFIT	4.8	1.9	2.0	1.6	1.9	1.7		.0	1.6	1.1	2.3	1.6	5.1	4.3
OTHER & UNKNOWN	4.9	3.8	4.1	6.6	4.5	4.2		1.9	4.3	1.3	1.4	1.3	1.5	5.7
POSTDOCT STATUS UNKN %	9.4	9.6	4.1	6.6	5.5	5.0		9.4	5.9	4.1	11.6	7.4	11.2	8.6
DEFINITE POSTDOCTORAL STUDY	9.8	32.7	33.7	13.1	29.4	4.2		7.5	20.5	60.5	32.7	48.5	23.9	7.1
SEEKING POSTDOCTORAL STUDY	4.6	15.4	11.2	14.8	12.6	2.5		3.8	8.9	16.2	13.4	15.0	7.1	12.9
DEFINITE EMPLOYMENT	50.4	30.8	34.2	45.9	35.9	65.0		64.2	46.0	11.9	25.3	17.7	40.1	48.6
SEEKING EMPLOYMENT	25.8	11.5	16.8	19.7	16.5	23.3		15.1	18.7	7.3	17.0	11.5	17.8	22.9
EMPLOYMENT ACTIVITY AFTER DOCTORATE %														
PRIMARY ACTIVITY														
R & D	12.6	75.0	65.7	50.0	63.1	33.3		44.1	49.3	49.1	30.3	37.5	41.8	41.2
TEACHING	52.8	6.3	23.9	21.4	20.7	48.7		38.2	33.5	29.1	59.6	47.9	34.2	29.4
ADMINISTRATION	13.2	.0	.0	7.1	1.8	.0		.0	.9	1.8	4.5	3.5	11.4	.0
PROF. SERVICES	12.9	6.3	4.5	14.3	7.2	3.8		.0	4.8	9.1	4.5	6.3	5.1	11.8
OTHER	2.0	.0	3.0	7.1	3.6	5.1		5.9	4.4	3.6	1.1	2.1	1.3	.0
ACTIVITY UNKNOWN	6.5	12.5	3.0	.0	3.6	9.0		11.8	7.0	7.3	.0	2.8	6.3	17.6
SECONDARY ACTIVITY														
R & D	28.3	12.5	11.9	28.6	16.2	34.6		20.6	23.8	27.3	42.7	36.8	25.3	23.5
TEACHING	10.7	6.3	4.5	10.7	6.3	21.8		5.9	11.9	23.6	14.6	18.1	19.0	11.8
ADMINISTRATION	8.6	6.3	4.5	7.1	5.4	2.6		5.9	4.4	10.9	4.5	6.9	16.5	5.9
PROF. SERVICES	6.8	.0	4.5	3.6	3.6	5.1		.0	3.5	.0	7.9	4.9	6.3	5.9
OTHER	2.5	.0	.0	3.6	.9	.0		.0	.4	1.8	.0	.7	.0	.0
NO SECONDARY ACTIVITY	36.6	62.5	71.6	46.4	64.0	26.9		55.9	48.9	29.1	30.3	29.9	26.6	35.3
UNKNOWN	6.5	12.5	3.0	.0	3.6	9.0		11.8	7.0	7.3	.0	2.8	6.3	17.6
REGION OF EMPLOYMENT AFTER DOCTORATE %														
NEW ENGLAND	7.9	6.3	6.0	.0	4.5	11.5		5.9	7.0	7.3	7.9	7.6	2.5	2.9
MIDDLE ATLANTIC	16.9	37.5	20.9	14.3	21.6	21.8		23.5	22.0	16.4	14.6	15.3	15.2	8.8
EAST NO CENTRAL	14.9	6.3	16.4	.0	10.8	14.1		11.8	12.3	16.4	18.0	17.4	11.4	8.8
WEST NO CENTRAL	6.6	.0	4.5	.0	2.7	5.1		2.9	4.0	7.3	10.1	9.0	2.5	.0
SOUTH ATLANTIC	16.2	12.5	17.9	14.3	16.2	12.8		11.8	14.1	14.5	20.2	18.1	13.9	14.7
EAST SO CENTRAL	5.3	6.3	.0	3.6	1.8	2.6		2.9	2.2	7.3	4.5	5.6	2.5	5.9
WEST SO CENTRAL	7.6	.0	16.4	35.7	18.9	6.4		8.8	12.8	9.1	2.2	4.9	17.7	5.9
MOUNTAIN	4.9	6.3	3.0	3.6	3.6	9.0		2.9	5.3	.0	7.9	4.9	2.5	2.9
PACIFIC & INSULAR	10.1	18.8	10.4	21.4	14.4	9.0		17.6	12.8	10.9	5.6	7.6	16.5	8.8
FOREIGN	5.1	6.3	3.0	.0	2.7	6.4		11.8	5.3	7.3	6.7	6.9	10.1	35.3
REGION UNKNOWN	4.5	.0	1.5	7.1	2.7	1.3		.0	2.2	3.6	2.2	2.8	5.1	5.9

1/ Refer to explanatory note on page 20 and the description of doctoral field groupings inside back cover.
2/ Statistics are not presented because too few records contained the specified data.

TABLE 2. CONTINUED

DOCTORATES: WOMEN

LIFE SCIENCES	PSYCHOLOGY	ECONOMICS	ANTHROPOLOGY & SOCIOLOGY	POLIT. SCI., PUBLIC ADMIN., INTERN'L REL.	OTHER SOCIAL SCIENCES	SOCIAL SCIENCES INCL. PSYCHOL.	TOTAL SCIENCES	HISTORY	ENG. AND AMER. LANG. AND LIT.	FOREIGN LANG. AND LIT	OTHER HUMANITIES	HUMANITIES	PROFESSIONAL FIELDS	EDUCATION	TOTAL NON-SCIENCES	OTHER OR UNSPECIFIED[2]
1082	1123	93	387	150	198	1951	3526	192	483	375	548	1598	330	2852	4780	7
22.1	36.8	11.6	38.4	17.6	26.6	30.2	19.6	22.5	47.0	53.3	33.2	37.7	22.7	39.7	37.1	46.7
81.7	89.3	71.0	86.8	88.7	84.3	87.4	83.6	91.7	91.5	87.5	88.7	89.6	87.6	92.5	91.2	
15.6	3.4	28.0	10.3	8.7	13.1	7.3	12.4	5.7	5.4	9.6	8.6	7.5	11.2	5.3	6.4	
2.7	7.3	1.1	2.8	2.7	2.5	5.3	3.9	2.6	3.1	2.9	2.7	2.9	1.2	2.2	2.4	
52.1	45.1	55.9	53.2	52.0	52.5	48.5	50.5	56.8	55.1	58.1	53.5	55.4	56.4	54.9	55.2	
43.1	45.2	40.9	42.6	42.0	43.4	44.1	43.6	38.0	40.4	37.9	42.5	40.2	41.2	41.1	40.8	
4.8	9.6	3.2	4.1	6.0	4.0	7.4	5.9	5.2	4.6	4.0	4.0	4.3	2.4	4.0	4.0	
30.1	29.9	30.7	32.4	32.4	32.0	30.8	30.3	33.4	33.5	33.5	32.9	33.3	34.9	37.3	35.4	
35.4	61.4	61.3	54.0	56.7	22.7	55.7	51.9	62.5	77.0	69.1	50.0	64.1	37.6	42.4	44.3	
58.1	74.2	80.6	88.1	92.0	89.4	80.2	71.8	88.5	87.4	90.7	89.6	89.0	96.4	97.1	94.3	
7.7	7.5	8.8	9.5	9.6	9.4	8.4	7.9	11.0	10.6	10.5	10.3	10.5	11.7	13.3	12.1	
5.8	5.9	6.1	7.0	6.8	6.0	6.2	6.0	8.2	7.8	7.5	7.1	7.6	6.2	6.3	6.7	
54.7	16.1	4.3	15.8	2.7	5.6	13.4	28.3	6.8	4.6	6.7	7.1	6.2	3.3	3.1	4.1	
34.3	9.1	3.2	9.8	2.0	3.0	7.8	16.6	3.1	2.1	3.2	2.2	2.5	1.5	1.1	1.6	
15.2	2.0	1.1	2.8	.0	2.0	2.0	8.0	2.1	.0	.5	1.5	.9	1.2	.6	.7	
1.7	2.8	.0	.8	.0	.5	1.8	1.5	.0	.2	.0	.4	.2	.6	.5	.4	
3.6	2.2	.0	2.3	.7	.0	1.8	2.2	1.6	2.3	2.9	3.1	2.6	.0	.9	1.4	
37.2	71.0	87.1	75.5	84.7	85.9	75.2	62.1	79.7	83.4	80.3	82.8	82.0	91.8	88.7	86.7	
24.0	32.9	60.2	62.3	62.7	64.1	45.5	36.8	59.9	70.4	64.8	68.8	67.3	73.0	68.1	68.2	
3.9	6.3	12.9	2.6	4.0	5.6	5.6	7.5	3.6	4.6	5.1	3.5	4.2	5.2	3.7	4.0	
5.2	10.0	10.8	2.8	8.7	7.1	8.2	7.0	4.7	1.0	1.9	2.4	2.1	3.9	7.9	5.7	
2.4	14.6	.0	2.6	4.7	3.5	9.6	6.3	3.6	1.7	1.6	3.1	2.4	4.8	4.3	3.7	
1.7	7.1	3.2	5.2	4.7	5.6	6.2	4.5	7.8	5.8	6.9	5.1	6.1	4.8	4.7	5.2	
8.1	12.9	8.6	8.8	12.7	8.6	11.4	9.6	13.5	12.0	13.1	10.0	11.8	4.8	8.2	9.2	
41.3	12.1	1.1	9.0	1.3	2.0	9.1	20.6	4.7	1.9	2.1	3.1	2.7	2.1	1.3	1.8	
13.4	4.0	3.2	6.7	1.3	3.5	4.3	7.7	2.1	2.7	4.5	4.0	3.5	1.2	1.8	2.3	
23.8	45.8	67.7	50.1	62.0	62.6	50.6	41.7	45.8	50.7	39.5	52.6	48.1	65.5	60.6	56.8	
13.4	25.2	19.4	25.3	22.7	23.2	24.6	20.3	33.9	32.7	40.8	30.3	33.9	26.4	28.1	29.9	
39.3	13.8	28.6	20.1	14.0	17.7	16.5	2..5	8.0	2.0	5.4	4.5	4.3	6.5	6.1	5.6	
41.2	28.4	61.9	67.0	61.3	63.7	45.6	43.0	67.0	80.0	73.6	81.9	78.0	66.2	48.0	58.0	
5.4	4.1	.0	3.6	14.0	6.5	5.0	4.4	6.8	7.3	8.1	4.9	6.5	7.9	24.5	18.1	
6.6	46.9	1.6	1.0	.0	6.5	25.5	19.0	3.4	3.7	4.7	1.4	3.0	10.2	12.4	9.6	
1.6	1.2	.0	1.5	3.2	1.6	1.4	1.9	5.7	2.0	1.4	2.4	2.5	.9	2.0	2.0	
5.8	5.6	7.9	6.7	7.5	4.0	6.0	6.1	9.1	4.9	6.8	4.9	5.7	8.3	6.9	6.7	
31.5	28.6	50.8	47.9	39.8	41.9	36.5	33.7	35.2	29.8	34.5	35.4	33.4	40.3	19.8	25.3	
17.5	12.6	6.3	10.8	6.5	11.3	11.1	12.4	2.3	5.7	6.1	4.9	5.1	7.9	12.2	9.8	
9.7	8.9	6.3	2.1	8.6	10.5	7.6	7.5	3.4	5.3	6.1	4.9	5.1	9.3	11.0	9.2	
5.4	7.4	7.9	2.1	5.4	4.8	5.9	5.4	3.4	2.4	.7	3.1	2.5	6.9	10.0	7.6	
.4	3.1	1.6	.5	1.1	4.8	3.5	1.8	1.1	2.4	2.0	6.9	3.9	2.3	2.4	2.8	
29.6	33.7	19.0	29.9	31.2	22.6	30.4	33.1	45.5	49.4	43.9	39.9	44.3	25.0	37.6	38.5	
5.8	5.6	7.9	6.7	7.5	4.0	6.0	6.1	9.1	4.9	6.8	4.9	5.7	8.3	6.9	6.7	
5.4	10.1	12.7	6.2	12.9	7.3	9.4	8.4	10.2	12.2	10.1	10.8	11.1	8.8	5.9	7.6	
14.4	23.7	14.3	18.0	25.8	13.7	21.0	20.0	23.9	17.1	20.9	18.4	19.1	13.4	13.9	15.3	
14.4	15.4	12.7	17.0	6.5	16.9	14.9	14.4	14.8	13.1	10.1	15.3	13.5	20.4	15.2	15.1	
5.8	5.3	4.8	8.2	2.2	5.6	5.6	5.4	6.8	4.9	4.7	8.7	6.5	10.2	7.3	7.3	
16.3	13.8	17.5	12.4	22.6	19.4	15.3	15.3	17.0	16.3	14.9	12.2	14.6	10.2	18.6	16.8	
4.7	4.1	.0	4.1	1.1	4.0	3.5	3.5	2.3	7.8	3.4	3.8	4.8	6.5	6.8	6.2	
8.9	3.7	6.3	4.6	8.6	5.6	4.8	6.7	3.4	6.5	5.4	6.9	6.1	8.3	8.9	8.1	
3.9	5.4	3.2	8.2	4.3	4.8	5.7	5.3	.0	6.5	4.1	2.4	3.8	1.9	5.6	4.8	
10.5	10.9	15.9	8.8	9.7	10.5	1..1	10.9	13.6	6.9	11.5	12.5	10.7	9.7	9.1	9.6	
11.7	2.5	9.5	8.8	2.2	8.1	4.9	6.1	4.5	3.3	7.4	6.6	5.5	7.9	3.8	4.6	
3.9	5.1	3.2	3.6	4.3	4.0	4.5	4.0	3.4	5.3	7.4	2.4	4.4	2.8	5.1	4.7	

SOURCE: NRC, Commission on Human Resources, Doctorate Records File.

TABLE 3
PERCENTAGE OF FY 1978 DOCTORATE RECIPIENTS BY SOURCES OF SUPPORT IN GRADUATE SCHOOL, BY SEX AND SUMMARY FIELD 1/

SOURCES OF SUPPORT IN GRADUATE SCHOOL		DOCTORATE RECIPIENTS BY FIELD							
		PHYSICAL 2/ SCIENCES	ENGI-NEERING	LIFE SCIENCES	SOCIAL SCIENCES	HUMANITIES	PROF. FIELDS	EDUCATION	TOTAL
		MEN/WOMEN	MEN/WOMEN	MEN/WOMEN	MEN/WOMEN	MEN/WOMEN	MEN/WOMEN	MEN/WOMEN	MEN/WOMEN
NSF FELLOWSHIP	N	199/ 17	110/ 3	96/ 41	123/ 58	14/ 5	1/ 2	43/ 13	586/ 139
	Vt	5.5/ 4.0	4.9/ 6.0	2.6/ 4.0	3.0/ 3.3	.6/ .3	.1/ .6	1.0/ .5	2.7/ 1.8
	Ht	34.0/12.2	18.8/ 2.2	16.4/29.5	21.0/41.7	2.4/ 3.6	.2/ 1.4	7.3/ 9.4	100.1/100.0
NSF TRAINEESHIP	N	130/ 9	66/ 1	76/ 18	68/ 31	3/ 2	4/ 2	7/ 5	354/ 68
	Vt	3.6/ 2.1	2.9/ 2.0	2.1/ 1.8	1.6/ 1.7	.1/ .1	.4/ .6	.2/ .2	1.7/ .9
	Ht	38.7/13.2	18.6/ 1.5	21.5/26.5	19.2/45.6	.8/ 2.9	1.1/ 2.9	2.0/ 7.4	99.9/100.0
NIH FELLOWSHIP	N	36/ 6	11/ 1	147/ 48	152/ 111	4/ 1	12/ 16	7/ 10	369/ 193
	Vt	1.0/ 1.4	.5/ 2.0	4.0/ 4.7	3.7/ 6.3	.2/ .1	1.1/ 5.0	.2/ .4	1.7/ 2.5
	Ht	9.8/ 3.1	3.0/ .5	39.8/24.9	41.2/57.5	1.1/ .5	3.3/ 8.3	1.9/ 5.2	100.1/100.0
NIH TRAINEESHIP	N	66/ 5	42/ 1	674/ 271	269/ 175	4/ 1	10/ 10	3/ 10	1068/ 473
	Vt	1.8/ 1.2	1.9/ 2.0	18.5/26.6	6.5/ 9.9	.2/ .1	.9/ 3.2	.1/ .4	5.0/ 6.1
	Ht	6.2/ 1.1	3.9/ .2	63.1/57.3	25.2/37.0	.4/ .2	.9/ 2.1	.3/ 2.1	100.0/100.0
NDEA FELLOWSHIP	N	76/ 16	29/ 0	64/ 19	185/ 77	285/ 160	29/ 1	70/ 42	738/ 315
	Vt	2.1/ 3.7	1.3/ .0	1.8/ 1.9	4.5/ 4.3	11.5/10.6	2.7/ .3	1.7/ 1.6	3.5/ 4.0
	Ht	10.3/ 5.1	3.9/ .0	8.7/ 6.0	25.1/24.4	38.6/50.8	3.9/ .3	9.5/13.3	100.0/ 99.9
NATIONAL DIRECT STUDENT LOANS	N	159/ 17	85/ 1	195/ 46	553/ 200	376/ 171	90/ 22	331/ 193	1789/ 650
	Vt	4.4/ 4.0	3.8/ 2.0	5.4/ 4.5	13.3/11.3	15.2/11.3	8.3/ 6.9	8.0/ 7.2	8.4/ 8.3
	Ht	8.9/ 2.6	4.8/ .2	10.9/ 7.1	30.9/30.8	21.0/26.3	5.0/ 3.4	18.5/29.7	100.0/100.1
OTHER HEW	N	17/ 4	15/ 1	82/ 64	241/ 180	25/ 11	37/ 32	158/ 131	575/ 423
	Vt	.5/ .9	.7/ 2.0	2.3/ 6.3	5.8/10.1	1.0/ .7	3.4/10.1	3.8/ 4.9	2.7/ 5.4
	Ht	3.0/ .9	2.6/ .2	14.3/15.1	41.9/42.6	4.3/ 2.6	6.4/ 7.6	27.5/31.0	100.0/100.0
NASA TRAINEESHIP	N	19/ 1	26/ 0	7/ 5	3/ 1	0/ 1	0/ 0	2/ 0	57/ 8
	Vt	.5/ .2	1.2/ .0	.2/ .5	.1/ .1	.0/ .1	.0/ .0	.0/ .0	.3/ .1
	Ht	33.3/12.5	45.6/ .0	12.3/62.5	5.3/12.5	.0/12.5	.0/ .0	3.5/ .0	100.0/100.0
GI BILL	N	326/ 1	145/ 0	451/ 6	357/ 10	313/ 6	173/ 0	692/ 27	2657/ 50
	Vt	9.1/ .2	6.5/ .0	12.4/ .6	13.4/ .6	12.6/ .4	16.0/ .0	16.8/ 1.0	12.5/ .6
	Ht	12.3/ 2.0	5.5/ .0	17.0/12.0	21.0/20.0	11.8/12.0	6.5/ .0	26.0/54.0	100.1/100.0
OTHER FEDERAL 3/ SUPPORT	N	192/ 19	157/ 3	201/ 48	319/ 124	109/ 57	50/ 16	131/ 74	1159/ 341
	Vt	5.3/ 4.4	7.0/ 6.0	5.5/ 4.7	7.7/ 7.0	4.4/ 3.8	4.6/ 5.0	3.2/ 2.7	5.4/ 4.4
	Ht	16.6/ 5.6	13.5/ .9	17.3/14.1	27.5/36.4	9.4/16.7	4.3/ 4.7	11.3/21.7	99.9/100.1
WOODROW WILSON FELLOWSHIP	N	8/ 1	2/ 0	2/ 1	29/ 14	65/ 37	0/ 0	2/ 2	108/ 55
	Vt	.2/ .2	.1/ .0	.1/ .1	.7/ .8	2.6/ 2.4	.0/ .0	.0/ .1	.5/ .7
	Ht	7.4/ 1.8	1.9/ .0	1.9/ 1.8	26.9/25.5	60.2/67.3	.0/ .0	1.9/ 3.6	100.2/100.0
OTHER NATIONAL FELLOWSHIP	N	52/ 11	36/ 3	58/ 23	153/ 80	132/ 95	18/ 14	46/ 42	495/ 268
	Vt	1.4/ 2.6	1.6/ 6.0	1.6/ 2.3	3.7/ 4.5	5.3/ 6.3	1.7/ 4.4	1.1/ 1.6	2.3/ 3.4
	Ht	10.5/ 4.1	7.3/ 1.1	11.7/ 8.6	30.9/29.9	26.7/35.4	3.6/ 5.2	9.3/15.7	100.0/100.0
UNIVERSITY FELLOWSHIP	N	725/ 100	343/ 8	495/ 174	897/ 341	840/ 492	187/ 41	357/ 266	3844/ 1422
	Vt	20.2/23.4	15.3/16.0	13.6/17.1	21.6/19.2	33.9/32.5	17.3/12.9	8.6/ 9.9	18.0/ 18.2
	Ht	18.9/ 7.0	8.9/ .6	12.9/12.2	23.3/24.0	21.9/34.6	4.9/ 2.9	9.3/18.7	100.1/100.0
TEACHING ASSISTANTSHIP	N	2518/ 322	838/ 20	1448/ 427	2112/ 844	1513/ 927	438/ 103	966/ 717	9833/ 3360
	Vt	70.1/75.2	37.3/40.0	39.8/41.9	50.8/47.5	61.1/61.2	40.4/32.5	23.4/26.6	48.1/ 43.1
	Ht	25.6/ 9.6	8.5/ .6	14.7/12.7	21.5/25.1	15.4/27.6	4.5/ 3.1	9.8/21.3	100.0/100.0
RESEARCH ASSISTANTSHIP	N	2300/ 251	1523/ 34	1818/ 392	1467/ 606	295/ 175	232/ 73	614/ 426	8249/ 1957
	Vt	64.0/58.6	67.8/68.0	49.9/38.4	35.3/34.1	11.9/11.6	21.4/23.0	14.9/15.8	38.7/ 25.1
	Ht	27.9/12.8	18.5/ 1.7	22.0/20.0	17.8/31.0	3.6/ 8.9	2.8/ 3.7	7.4/21.8	100.0/ 99.9
EDUC. FUNDS OF INDUSTRY	N	158/ 18	167/ 3	68/ 23	71/ 22	23/ 18	65/ 10	80/ 48	632/ 142
	Vt	4.4/ 4.2	7.4/ 6.0	1.9/ 2.3	1.7/ 1.2	.9/ 1.2	6.0/ 3.2	1.9/ 1.8	3.0/ 1.8
	Ht	25.0/12.7	26.4/ 2.1	10.8/16.2	11.2/15.5	3.6/12.7	10.3/ 7.0	12.7/33.8	100.0/100.0
OTHER INSTITUTION FUNDS	N	155/ 32	89/ 2	228/ 70	357/ 162	213/ 136	70/ 29	341/ 247	1453/ 678
	Vt	4.3/ 7.5	4.0/ 4.0	6.3/ 6.9	8.6/ 9.1	8.6/ 9.0	6.5/ 9.1	8.3/ 9.2	6.8/ 8.7
	Ht	10.7/ 4.7	6.1/ .3	15.7/10.3	24.6/23.9	14.7/20.1	4.8/ 4.3	23.5/36.4	100.1/100.0
OWN EARNINGS	N	947/ 106	763/ 17	1114/ 329	2221/ 976	1481/ 865	685/ 195	3099/2001	10310/ 4489
	Vt	26.4/24.8	34.0/34.0	30.6/32.3	53.4/55.0	59.8/57.1	63.3/61.5	75.1/74.2	48.4/ 57.6
	Ht	9.2/ 2.4	7.4/ .4	10.8/ 7.3	21.5/21.7	14.4/19.3	6.6/ 4.3	30.1/44.6	100.0/100.0
SPOUSE'S EARNINGS	N	875/ 97	462/ 17	1148/ 273	1352/ 539	897/ 571	370/ 135	1307/ 958	6411/ 2590
	Vt	24.4/22.7	20.6/34.0	31.5/26.8	32.5/30.4	36.2/37.7	34.2/42.6	31.7/35.5	30.1/ 33.2
	Ht	13.6/ 3.7	7.2/ .7	17.9/10.5	21.1/20.8	14.0/22.0	5.8/ 5.2	20.4/37.0	100.0/ 99.9
FAMILY CONTRIBUTIONS	N	400/ 39	300/ 4	440/ 151	695/ 317	506/ 332	138/ 49	397/ 323	2876/ 1215
	Vt	11.1/ 9.1	13.4/ 8.0	12.1/14.8	16.7/17.9	20.4/21.9	12.7/15.5	9.6/12.0	13.5/ 15.6
	Ht	13.9/ 3.2	10.4/ .3	15.3/12.4	24.2/26.1	17.6/27.3	4.8/ 4.0	13.8/28.6	100.0/ 99.9
OTHER LOANS	N	179/ 24	131/ 5	247/ 70	554/ 213	320/ 198	124/ 33	440/ 256	1995/ 799
	Vt	5.0/ 5.6	5.8/10.0	6.8/ 6.9	13.3/12.0	12.9/13.1	11.4/10.4	10.7/ 9.5	9.4/ 10.2
	Ht	9.0/ 3.0	6.6/ .6	12.4/ 8.8	27.8/26.7	16.0/24.8	6.2/ 4.1	22.1/32.0	100.1/100.0
OTHER	N	200/ 26	199/ 3	286/ 64	310/ 114	186/ 136	127/ 32	242/ 162	1550/ 537
	Vt	5.6/ 6.1	8.9/ 6.0	7.9/ 6.3	7.5/ 6.4	7.5/ 9.0	11.7/10.1	5.9/ 6.0	7.3/ 6.9
	Ht	12.9/ 4.8	12.8/ .6	18.5/11.9	20.0/21.2	12.0/25.3	8.2/ 6.0	15.6/30.2	100.0/100.0
UNDUPLICATED TOTAL	N	3591/ 428	2247/ 50	3640/1020	4156/1775	2477/1514	1083/ 317	4129/2695	21323/ 7799 4/

1/ Data are not comparable with data for earlier years because of a change in the survey question on source of support. Frequencies as reported are not reliable but relative frequencies should serve as useful approximations.
2/ Includes mathematics.
3/ Includes AEC/ERDA Fellowship which was formerly shown separately.
4/ The 15 individuals shown in Table 1 as having subfield "Other and Unspecified" are omitted from this table.

SOURCE: NRC, Commission on Human Resources, Doctorate Records File.

TABLE 4
NUMBER OF DOCTORATE RECIPIENTS BY SEX, STATE OF DOCTORAL INSTITUTION AND SUMMARY FIELD, FY 1978 1/

STATE OF DOCTORAL INSTITUTION	NUMBER OF DOCTORATE RECIPIENTS BY FIELD																	
	PHYSICAL 2/ SCIENCES		ENGI-NEERING		LIFE SCIENCES		SOCIAL SCIENCES		HUMANITIES		PROF. FIELDS		EDUCATION		OTHER & UNSPEC.		TOTAL	
	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN	MEN	WOMEN
U.S. TOTAL	3753	440	2370	53	3805	1082	4502	1951	2637	1598	1124	330	4338	2852	8	7	22537	8313
ALABAMA	21	2	11	0	28	13	16	4	7	5	5	1	90	66	0	0	178	91
ALASKA	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	1
ARIZONA	52	6	22	2	56	11	53	27	19	16	10	2	84	43	0	0	296	107
ARKANSAS	5	0	2	0	16	2	8	3	10	5	16	1	25	16	0	0	82	27
CALIFORNIA	562	56	425	9	446	139	607	265	276	187	100	30	227	194	0	1	2643	881
COLORADO	77	7	45	1	63	15	89	39	27	21	28	2	182	84	0	0	511	169
CONNECTICUT	64	17	22	0	60	23	80	22	92	61	13	4	41	23	0	0	372	150
DELAWARE	17	4	13	0	12	0	12	6	8	3	0	0	0	0	0	0	62	13
D. C.	52	5	34	0	31	35	90	38	52	29	33	6	51	37	0	0	343	150
FLORIDA	69	13	45	0	77	19	165	48	44	23	23	12	326	184	0	0	749	299
GEORGIA	41	6	35	0	85	17	74	39	41	20	27	1	79	79	0	0	382	162
HAWAII	23	2	3	1	39	8	25	11	9	6	0	0	0	2	0	0	99	30
IDAHO	12	1	3	0	17	1	4	1	3	0	0	0	7	10	0	0	46	13
ILLINOIS	227	22	148	5	179	44	275	103	187	96	62	21	220	139	1	0	1299	430
INDIANA	101	9	91	2	131	30	127	45	109	54	42	13	166	91	0	2	767	246
IOWA	61	5	40	1	87	17	64	15	68	28	22	2	80	31	0	1	422	100
KANSAS	41	6	22	0	61	17	66	26	25	10	4	6	81	47	0	0	300	112
KENTUCKY	21	0	9	0	26	4	28	15	14	15	28	2	12	6	0	0	138	42
LOUISIANA	32	4	8	1	31	11	36	13	47	20	53	1	47	33	0	0	254	83
MAINE	2	1	0	0	14	0	7	0	3	0	0	0	12	2	0	0	38	3
MARYLAND	78	13	43	1	95	44	70	36	39	33	11	6	47	61	0	0	383	194
MASSACHUSETTS	267	34	200	5	127	74	246	135	186	111	75	24	191	190	0	0	1292	573
MICHIGAN	131	11	82	2	179	32	206	85	107	67	39	17	240	149	0	0	984	363
MINNESOTA	47	4	33	0	94	20	78	31	61	17	15	8	50	36	0	0	378	116
MISSISSIPPI	13	0	7	1	32	3	48	9	7	6	12	3	91	36	1	0	211	58
MISSOURI	44	5	43	3	65	20	99	30	39	26	34	10	111	51	0	0	435	145
MONTANA	8	2	5	0	10	1	9	0	0	0	0	0	13	1	0	0	45	4
NEBRASKA	17	2	3	0	34	1	35	11	11	8	19	1	44	23	0	0	163	46
NEVADA	8	0	0	0	1	1	2	4	0	0	0	0	5	1	0	0	16	6
NEW HAMPSHIRE	13	5	6	0	18	4	9	3	3	0	0	0	0	1	0	0	49	13
NEW JERSEY	103	14	60	1	65	27	83	40	78	45	17	5	66	46	0	0	472	178
NEW MEXICO	31	1	13	0	14	3	14	7	13	13	0	0	31	10	0	0	116	34
NEW YORK	383	47	203	5	376	115	556	342	319	262	98	41	343	290	2	0	2280	1102
NORTH CAROLINA	80	12	37	0	148	43	91	38	75	39	16	7	65	56	0	0	512	195
NORTH DAKOTA	4	0	0	0	14	1	13	5	1	0	0	0	7	2	0	0	39	8
OHIO	152	22	103	2	131	34	192	97	104	52	54	24	229	134	2	1	967	366
OKLAHOMA	27	5	36	3	55	15	52	15	24	10	11	2	74	50	0	0	279	100
OREGON	47	1	12	0	66	10	45	12	9	7	7	4	72	32	0	0	258	66
PENNSYLVANIA	212	32	139	0	138	54	225	93	137	93	52	21	227	155	0	1	1130	449
RHODE ISLAND	62	4	12	1	11	9	30	11	29	20	0	0	0	0	0	0	144	45
SOUTH CAROLINA	35	0	8	0	23	4	16	13	17	4	11	1	31	25	1	0	142	47
SOUTH DAKOTA	1	0	0	0	7	2	14	2	0	0	0	0	16	5	0	0	38	9
TENNESSEE	32	5	24	1	53	22	69	28	34	29	14	19	94	60	0	0	320	164
TEXAS	190	29	131	4	196	63	164	62	121	64	111	16	232	156	0	0	1145	394
UTAH	39	2	36	1	46	7	53	11	10	5	11	4	88	42	1	1	284	73
VERMONT	8	0	1	0	8	2	3	3	4	3	0	0	0	3	0	0	24	8
VIRGINIA	55	7	51	0	62	17	54	19	35	16	7	1	98	69	0	0	362	129
WASHINGTON	54	5	31	0	99	13	67	38	42	15	21	3	44	25	0	0	358	99
WEST VIRGINIA	8	1	9	0	24	7	16	7	12	3	0	0	26	12	0	0	95	30
WISCONSIN	104	9	59	1	147	27	112	42	75	45	23	9	58	45	0	0	578	176
WYOMING	13	1	5	0	8	1	5	1	1	0	0	0	15	1	0	0	47	4
PUERTO RICO	5	1	0	0	0	0	0	1	3	6	0	0	0	0	0	0	8	8

1/ Refer to explanatory note on page 21.
2/ Includes mathematics.

SOURCE: NRC, Commission on Human Resources, Doctorate Records File.

TABLE 5
STATISTICAL PROFILE OF DOCTORATE RECIPIENTS BY RACIAL OR ETHNIC GROUP AND U.S. CITIZENSHIP STATUS, FY 1978 1/

		TOTAL				AMER. INDIAN	ASIAN				BLACK			
		U.S.	NON-U.S. PERM.	NON-U.S. TEMP.	TOTAL	TOTAL	U.S.	NON-U.S. PERM.	NON-U.S. TEMP.	TOTAL	U.S.	NON-U.S. PERM.	NON-U.S. TEMP.	TOTAL
TOTAL NUMBER		25186	1343	3416	30850 3/	174	388	643	1309	2391 4/	1029	71	270	1378 4/
MALE	V%	71.0	78.2	86.7	73.1	75.9	73.5	82.6	85.0	82.4	56.5	88.7	93.3	65.2
FEMALE	V%	29.0	21.8	13.3	26.9	24.1	26.5	17.4	15.0	17.6	43.5	11.3	6.7	34.8
DOCTORAL FIELD														
PHYSICAL SCIENCES 5/	V%	12.7	19.2	18.9	13.6	11.5	20.9	26.6	23.8	24.2	5.0	4.2	7.4	5.4
ENGINEERING	V%	5.0	24.2	22.5	7.9	6.3	16.2	32.5	27.3	26.8	.9	5.6	7.4	2.4
LIFE SCIENCES	V%	15.5	15.7	19.4	15.8	19.5	23.2	20.1	21.9	21.5	6.7	14.1	18.5	9.5
SOCIAL SCIENCES	V%	21.4	16.3	15.7	20.9	15.5	13.4	10.3	10.9	11.4	18.6	29.6	22.2	19.9
ARTS & HUMANITIES	V%	15.0	10.3	5.8	13.7	11.5	7.5	2.6	3.4	4.0	7.8	14.1	6.7	7.8
EDUCATION	V%	25.7	9.5	12.1	23.3	32.2	14.4	4.8	8.5	8.4	36.7	21.1	30.4	49.6
PROFESSIONS & OTHER	V%	4.7	4.8	5.8	4.8	3.4	4.4	3.1	4.1	3.8	4.5	11.3	7.4	5.4
MEDIAN AGE AT DOCTORATE		31.7	32.0	31.5	31.7	32.9	33.6	31.4	31.2	31.5	36.0	35.5	33.7	35.3
MEDIAN TIME LAPSE BA-PHD														
TOTAL TIME		9.0	8.8	8.2	8.9	8.7	10.4	8.7	8.5	8.7	12.3	9.2	7.2	10.7
REGISTERED TIME		6.2	6.3	5.4	6.1	6.3	6.7	6.5	5.8	6.1	6.4	6.0	4.8	6.0
GRADUATE SCHOOL SUPPORT														
FEDERAL FELLOW/TRAINEE	V%	23.1	8.2	8.1	20.1	24.7	20.1	8.7	8.9	10.5	19.3	8.5	6.7	16.2
GI BILL	V%	10.7	.1	.1	8.8	10.9	5.7	.0	.0	.9	11.7	.0	.0	8.7
OTHER FELLOWSHIP	V%	19.7	19.7	19.6	19.2	13.8	16.0	17.9	18.0	17.3	24.6	23.9	20.7	23.7
TEACHING ASSISTANTSHIP	V%	44.8	48.3	36.8	42.8	43.7	45.4	49.5	41.1	43.3	23.6	35.2	27.4	24.8
RESEARCH ASSISTANTSHIP	V%	31.7	49.9	44.8	33.1	29.3	45.1	65.0	55.8	55.4	15.2	22.5	21.9	16.8
EDUC./INST. FUNDS	V%	9.7	7.7	9.1	9.2	10.9	8.2	5.3	9.2	7.8	11.7	9.9	12.2	11.6
OWN/SPOUSE EARNINGS	V%	67.9	49.7	28.4	60.8	76.4	59.8	39.8	21.2	32.2	65.9	66.2	36.3	59.9
FAMILY CONTRIBUTIONS	V%	13.4	15.2	15.1	13.3	10.3	12.9	13.8	17.3	15.4	7.9	16.9	12.6	9.2
NATL DIRECT STDNT LOAN	V%	9.3	5.0	.5	7.9	10.9	7.7	4.8	.5	2.8	12.9	14.1	1.1	10.7
OTHER LOANS	V%	9.9	7.1	5.7	9.1	14.9	7.5	4.2	4.0	4.6	12.8	22.5	8.1	12.4
OTHER	V%	4.4	6.6	25.8	6.8	8.0	3.4	3.7	14.3	9.4	4.8	8.5	41.5	12.1
UNKNOWN	V%	2.8	3.1	3.3	5.6	1.7	1.3	1.4	2.4	3.6	3.2	5.6	3.7	3.8
POSTDOCTORAL STUDY PLANS	V%	17.2	23.1	25.2	17.9	15.5	23.7	31.1	33.5	30.7	7.1	8.5	12.2	8.1
PLANNED EMPLOYMENT AFTER DOCTORATE	V%	77.8	72.2	68.5	74.4	82.2	71.6	64.4	61.2	62.8	88.0	84.5	81.1	86.1
EDUC. INSTITUTION	V%	50.5	35.4	42.4	47.5	55.2	34.5	22.6	34.5	30.7	63.3	54.9	54.1	60.8
INDUSTRY/BUSINESS	V%	10.2	26.1	10.6	10.6	8.0	23.5	33.7	12.9	20.0	4.9	7.0	3.7	4.7
GOVERNMENT	V%	8.9	4.6	9.8	8.6	13.8	7.7	4.5	8.4	7.1	10.3	11.3	17.0	11.6
NON-PROFIT	V%	4.9	2.8	2.2	4.4	2.9	2.6	1.4	1.7	1.8	4.1	5.6	3.3	4.0
OTHER & UNKNOWN	V%	3.4	3.3	3.4	3.3	2.3	3.4	2.2	3.7	3.2	5.5	5.6	3.0	5.0
POSTDOCT STATUS UNKNOWN	V%	4.9	4.8	6.3	7.7	2.3	4.6	4.5	5.3	6.6	4.9	7.0	6.7	5.7
DEFINITE POSTDOCT STUDY	V%	13.3	12.5	15.7	13.1	12.1	16.5	17.6	21.3	19.1	3.9	2.8	4.4	3.9
SEEKING POSTDOCT STUDY	V%	4.0	10.6	9.4	4.8	3.4	7.2	13.5	12.2	11.5	3.2	5.6	7.8	4.2
DEFINITE EMPLOYMENT	V%	56.4	44.9	49.2	53.5	60.3	48.2	39.0	41.4	41.2	60.4	40.8	50.0	57.1
SEEKING EMPLOYMENT	V%	21.4	27.3	19.3	20.9	21.8	23.5	25.3	19.8	21.6	27.6	43.7	31.1	29.0
EMPLOYMENT LOCATION AFTER DOCTORATE														
U.S.	V% 7/	94.7	87.2	25.4	87.4	95.2	94.1	88.8	32.3	58.5	91.2	89.7	13.3	77.8
FOREIGN	V% 7/	1.6	9.0	69.9	8.9	1.0	2.1	6.4	61.6	36.2	.5	10.3	80.0	14.5
UNKNOWN	V% 7/	3.6	3.8	4.7	3.8	3.8	3.7	4.8	6.1	5.3	8.4	.0	6.7	7.8

1/ Data not comparable with data for earlier years because of changes in the survey question on racial/ethnic group. See discussion on page 21.
2/ See definition on page 38. The definition used in this survey is not consistent with the guidance received from OMB in July 1977, subsequent to this survey, which defines "Hispanic" more restrictively to exclude persons from Portugal and to include only those persons from Central and South America who are of Spanish origin, descent or culture. Under the revised definition persons from Brazil, Guyana, Surinam, Trinidad, and Belize would be classified according to their race, and would not necessarily be included in the Hispanic category.
3/ Includes 905 individuals who did not report their citizenship at time of doctorate.

TABLE 5. CONTINUED

HISPANIC 2/				WHITE				OTHER & UNKNOWN			TOTAL			
U.S.	NON-U.S. PERM.	NON-U.S. TEMP.	TOTAL	U.S.	NON-U.S. PERM.	NON-U.S. TEMP.	TOTAL	U.S.	NON-U.S.	TOTAL	U.S.	NON-U.S. PERM.	NON-U.S. TEMP.	TOTAL
467	65	286	835 4/	21601	531	1370	23543 4/	1529	212	2529 4/5/	29186	1343	3416	30850 3/
67.2	80.0	86.7	75.0	71.5	71.4	87.2	72.4	73.8	83.5	74.2	71.0	78.2	86.7	73.1
32.8	20.0	13.3	25.0	28.5	28.6	12.8	27.6	26.2	16.5	25.8	29.0	21.8	13.3	26.9
5.6	6.2	20.6	10.8	12.8	14.3	16.5	13.0	16.7	15.1	14.2	12.7	19.2	18.9	13.6
4.1	20.0	15.4	9.2	4.9	17.9	23.1	6.3	6.1	15.1	7.1	5.0	24.2	22.5	7.9
9.0	7.7	28.7	15.9	15.8	11.5	14.8	15.7	15.4	21.2	15.1	15.5	15.7	19.4	15.8
21.0	26.2	16.8	20.0	21.7	20.9	18.0	21.5	21.6	19.3	25.6	21.4	16.3	15.7	20.9
23.1	24.6	4.5	16.8	15.4	16.2	8.1	15.0	14.5	9.0	13.7	13.0	10.3	5.8	13.7
32.5	12.3	9.8	22.9	24.6	13.0	11.9	23.6	21.1	15.6	20.2	25.7	9.5	12.1	23.3
4.7	3.1	4.2	4.4	4.7	6.2	7.5	4.9	4.5	4.7	4.1	4.7	4.8	5.8	4.8
33.8	33.1	32.7	33.3	31.5	32.3	31.1	31.5	31.1	31.8	31.3	31.7	32.0	31.5	31.7
10.2	8.6	8.3	9.4	8.9	9.1	8.0	8.9	8.6	8.4	8.6	9.0	8.8	8.2	8.9
6.3	5.9	4.9	5.7	6.2	6.3	5.3	6.1	6.0	5.3	5.9	6.2	6.3	5.4	6.1
22.3	7.7	14.0	18.0	23.8	7.9	6.6	22.4	17.4	5.7	11.0	23.1	8.2	8.1	20.1
10.9	.0	.0	6.1	11.1	.2	.1	10.2	6.7	.0	4.1	10.7	.1	.1	8.8
22.1	13.8	18.5	19.8	19.9	22.0	21.8	20.0	15.5	15.1	10.7	19.7	19.7	19.6	19.2
31.9	44.6	23.1	29.2	46.8	49.2	38.6	46.4	33.6	31.1	23.1	44.8	48.3	36.8	42.8
19.1	32.3	32.9	24.6	33.0	38.8	42.9	33.7	26.3	31.6	18.6	31.7	49.9	44.8	33.1
13.9	7.7	14.3	13.3	9.7	13.4	7.4	9.6	6.6	8.0	4.7	9.7	7.7	9.1	9.2
63.4	63.1	24.1	48.9	69.8	58.0	35.5	67.4	45.8	25.9	30.1	67.9	49.7	28.4	60.8
10.9	7.7	8.7	9.7	14.0	17.9	16.1	14.2	9.6	7.1	6.4	13.4	15.2	15.1	13.3
10.7	1.5	.0	6.1	9.4	4.1	.4	8.7	6.3	1.9	4.0	9.3	5.0	.5	7.9
13.1	3.1	8.0	10.3	9.9	8.5	6.3	9.7	6.9	8.0	4.9	9.9	7.1	5.7	9.1
8.6	9.2	38.5	18.7	4.4	9.0	30.1	6.0	2.9	30.7	4.4	4.4	6.6	25.8	6.8
2.4	3.1	4.2	4.8	1.2	3.4	2.3	1.4	25.8	17.0	47.7	2.8	3.1	3.3	5.6
11.3	16.9	16.1	13.2	17.7	16.8	21.8	17.9	17.6	21.7	12.7	17.2	23.1	25.2	17.9
84.2	80.0	75.9	79.5	78.9	79.3	72.9	78.5	54.7	59.0	38.3	77.8	72.2	68.5	74.4
58.7	49.2	48.6	53.4	51.2	46.5	46.9	50.8	32.6	38.7	23.1	50.5	35.4	42.4	47.5
7.3	18.5	9.1	8.6	10.3	21.1	10.9	10.6	8.7	6.1	5.8	10.2	26.1	10.6	10.6
11.3	3.1	12.6	10.9	8.9	4.3	9.6	8.8	7.3	5.7	4.9	8.9	4.6	9.8	8.6
4.1	4.6	2.8	3.6	5.2	3.6	2.6	5.0	2.8	1.9	1.9	4.9	2.8	2.2	4.4
2.8	4.6	2.8	3.0	3.4	3.8	3.0	3.3	3.3	6.6	2.6	3.4	3.3	3.4	3.3
4.5	3.1	8.0	7.3	3.4	4.0	5.3	3.6	27.7	19.3	49.1	4.9	4.8	6.3	7.7
6.6	7.7	10.5	7.9	13.8	8.7	13.6	13.7	12.6	14.6	9.0	13.3	12.5	15.7	13.1
4.7	9.2	5.6	5.3	3.9	8.1	8.2	4.2	5.0	7.1	3.6	4.0	10.6	9.4	4.8
60.8	53.8	57.7	58.2	57.4	51.8	55.0	57.1	39.9	45.8	28.1	56.4	44.9	49.2	53.5
23.3	26.2	18.2	21.3	21.5	27.5	18.0	21.4	14.8	13.2	10.2	21.4	27.3	19.3	20.9
93.7	85.7	12.1	65.2	95.1	85.1	26.3	91.0	92.0	27.8	83.3	94.7	87.2	25.4	87.4
2.1	5.7	84.2	30.2	1.7	12.0	70.5	5.8	2.0	64.9	10.5	1.6	9.0	69.9	8.9
4.2	8.6	3.6	4.5	3.3	2.9	3.2	3.3	6.1	7.2	6.2	3.6	3.8	4.7	3.8

4/ Includes individuals who did not report their citizenship at time of doctorate.
5/ Includes those who provided no usable response to the item on "racial or ethnic group" and those who used an earlier form which did not contain this item.
6/ Includes mathematics.
7/ The base for this % is the number of doctorates in the column caption group who have found definite employment.

SOURCE: NRC, Commission on Human Resources, Doctorate Records File.

NSF Form 668 1977
OMB No. 99-R0290
Approval Expires June 30, 1979

SURVEY OF EARNED DOCTORATES

This form is to be returned to the GRADUATE DEAN, for forwarding to ..... Board on Human-Resource Data and Analyses
Commission on Human Resources
National Research Council
2101 Constitution Avenue, Washington, D. C. 20418

Please print or type.

A. Name in full: ..... (9-30)
(Last Name) (First Name) (Middle Name)

Cross Reference: Maiden name or former name legally changed ..... (31)

B. Permanent address through which you could always be reached: (Care of, if applicable) .....

.....
(Number) (Street) (City)

.....
(State) (Zip Code) (Or Country if not U.S.)

C. U.S. Social Security Number: ___ ___ ___ - ___ ___ - ___ ___ ___ ___ (32-40)

D. Date of birth: ..... Place of birth: .....
(41-46) (Month) (Day) (Year) (46-47) (State) (Or Country if not U.S.)

E. Sex: 1 ☐ Male 2 ☐ Female (48)

F. Marital status: 1 ☐ Married 2 ☐ Not married (including widowed, divorced) (49)

G. Citizenship: 0 ☐ U.S. native 2 ☐ Non U.S., Immigrant (Permanent Resident)
1 ☐ U.S. naturalized 3 ☐ Non-U.S., Non-Immigrant (Temporary Resident) (50)
If Non-U.S., indicate country of present citizenship ..... (51-52)

H. Racial or ethnic group: (Check all that apply.) *A person having origins in —*
0 ☐ American Indian or Alaskan Native .....any of the original peoples of North America, and who maintain cultural identification through tribal affiliation or community recognition.
1 ☐ Asian or Pacific Islander .....any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands. This area includes, for example, China, Japan, Korea, the Philippine Islands, and Samoa.
2 ☐ Black, not of Hispanic Origin .....any of the black racial groups of Africa.
3 ☐ White, not of Hispanic Origin .....any of the original peoples of Europe, North Africa, or the Middle East.
4 ☐ Hispanic .....Mexican, Puerto Rican, Central or South American, or other Spanish culture or origins, regardless of race. (53-55)

I. Number of dependents: Do not include yourself. (Dependent = someone receiving at least one half of his or her support from you) .....(56)

J. U.S. veteran status: 0 ☐ Veteran 1 ☐ On active duty 2 ☐ Non-veteran or not applicable (57)

K. High school last attended: .....
(School Name) (City) (State) (58-59)
Year of graduation from high school: ..... (60-61)

L. List in the table below all collegiate and graduate institutions you have attended including 2-year colleges. List chronologically, and include your doctoral institution as the last entry.

Institution Name	Location	Years Attended		Major Field		Minor Field	Degree (if any)		
				Use Specialties List			Title of Degree	Granted	
		From	To	Name	Number	Number		Mo.	Yr.

M. Enter below the title of your doctoral dissertation and the most appropriate classification number and field. If a project report or a musical or literary composition (not a dissertation) is a degree requirement, please check box. ☐ (44)

Title .....
.....
.....

Classify using Specialties List
Number Name of field
....

N. Name the department (or interdisciplinary committee, center, institute, etc.) and school or college of the university which supervised your doctoral program: .....
(Department/Institute/Committee/Program) (School)

O. Name of your dissertation adviser: .....
(Last Name) (First Name) (Middle Initial)

continued on next page

SURVEY OF EARNED DOCTORATES, Cont.

P. Please enter a "1" beside your primary source of support during graduate study. Enter a "2" beside your secondary source of support during graduate study. Check all other sources from which support was received.

58 ___ NSF Fellowship
59 ___ NSF Traineeship
60 ___ NIH Fellowship
61 ___ NIH Traineeship
62 ___ NDEA Fellowship
63 ___ Other HEW
64 ___ AEC/ERDA Fellowship
65 ___ NASA Traineeship
66 ___ GI Bill
67 ___ Other Federal support (specify) .....
68 ___ Woodrow Wilson Fellowship
69 ___ Other U.S. national fellowship (specify) .....
70 ___ University Fellowship
71 ___ Teaching Assistantship
72 ___ Research Assistantship
73 ___ Educational fund of industrial or business firm
74 ___ Other institutional funds (specify) .....
75 ___ Own earnings
76 ___ Spouse's earnings
77 ___ Family contributions
78 ___ Loans (NDSL direct)
79 ___ Other loans
80 ___ Other (specify) .....

Q. Please check the space which most fully describes your status during the year immediately preceding the doctorate.

0 ☐ Held fellowship
1 ☐ Held assistantship
2 ☐ Held own research grant
3 ☐ Not employed
4 ☐ Part-time employed

Full-time Employed in: (Other than 0, 1, 2)

5 ☐ College or university, teaching
6 ☐ College or university, non-teaching
7 ☐ Elem. or sec. school, teaching
8 ☐ Elem. or sec. school, non-teaching
9 ☐ Industry or business
(11) ☐ Other (specify) .....

(12) ☐ Any other (specify) ..... (9)

R. How many years (full-time equivalent basis) of professional work experience did you have prior to the doctorate? (include assistantships as professional experience) .....(10-11)

S. How well defined are your postgraduation plans?

0 ☐ Have signed contract or made definite commitment
1 ☐ Am negotiating with a specific organization, or more than one
2 ☐ Am seeking appointment but have no specific prospects
3 ☐ Other (specify) .....(12)

T. What are your immediate postgraduation plans?

0 ☐ Postdoctoral fellowship?
1 ☐ Postdoctoral research associateship?
2 ☐ Traineeship?
3 ☐ Other study (specify) .....
} Go to Item "U"

4 ☐ Employment (other than 0, 1, 2, 3)
5 ☐ Military service?
6 ☐ Other (specify).....(13)
} Go to Item "V"

U. If you plan to be on a postdoctoral fellowship, associateship, traineeship or other study

What will be the field of your postdoctoral study?
Classify using Specialties List.
Number Field

....(14-16)

What will be the primary source of support?

0 ☐ U.S. Government
1 ☐ College or university
2 ☐ Private foundation
3 ☐ Nonprofit, other than private foundation
4 ☐ Other (specify) .....(17)
6 ☐ Unknown

Go to Item "W"

V. If you plan to be employed, enter military service, or other — What will be the type of employer?

0 ☐ 4-year college or university other than medical school
1 ☐ Medical school
2 ☐ Jr. or community college
3 ☐ Elem. or sec. school
4 ☐ Foreign government
5 ☐ U.S. Federal government
6 ☐ U.S. state government
7 ☐ U.S. local government
8 ☐ Nonprofit organization
9 ☐ Industry or business
(11) ☐ Self-employed
(12) ☐ Other (specify) ..... (18)

Indicate *primary* work activity with "1" in appropriate box; *secondary* work activity (if any) with "2" in appropriate box.

0 ☐ Research and development
1 ☐ Teaching
2 ☐ Administration
3 ☐ Professional services to individuals
5 ☐ Other (specify)..... (19-20)

In what field will you be working?
Please enter number from Specialties List .....(21-23)

Go to Item "W"

W. What is the name and address of the organization with which you will be associated?

..... (Name of Organization)

..... (Street) ..... (City, State) (Or Country if not U.S.) (24-29)

X. Please indicate, by circling the highest grade attained, the education of

		Elementary school								High school				College				MA, MD Graduate	PhD	Postdoctoral	
your father:	none	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	MA, MD	PhD	Postdoctoral	(30)
your mother	none 0	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	MA, MD 8	PhD 9	Postdoctoral (11)	(31)
		1			2			3		4			5	6			7				

Signature ..... Date completed ..... (32-34)

MATHEMATICS

000 Algebra
010 Analysis & Functional Analysis
020 Geometry
030 Logic
040 Number Theory
050 Probability & Math. Statistics (see also 544, 670, 725, 727, 920)
060 Topology
080 Computing Theory & Practice
082 Operations Research (see also 478)
085 Applied Mathematics
098 Mathematics, General
099 Mathematics, Other*

COMPUTER SCIENCES

079 Computer Sciences* (see also 437)

ASTRONOMY

101 Astonomy
102 Astrophysics

PHYSICS

110 Atomic & Molecular
120 Electromagnetism
132 Acoustics
134 Fluids
135 Plasma
136 Optics
138 Thermal
140 Elementary Particles
150 Nuclear Structure
160 Solid State
198 Physics, General
199 Physics, Other*

CHEMISTRY

200 Analytical
210 Inorganic
220 Organic
230 Nuclear
240 Physical
250 Theoretical
260 Agricultural & Food
270 Pharmaceutical
275 Polymer
298 Chemistry, General
299 Chemistry, Other*

EARTH, ENVIRONMENTAL AND MARINE SCIENCES

301 Mineralogy, Petrology
305 Geochemistry
310 Stratigraphy, Sedimentation
320 Paleontology
330 Structural Geology
341 Geophysics (Solid Earth)
350 Geomorph. & Glacial Geology
391 Applied Geol., Geol. Engr. & Econ. Geol.
395 Fuel Tech. & Petrol. Engr. (see also 479)
360 Hydrology & Water Resources
370 Oceanography
397 Marine Sciences, Other*
381 Atmospheric Physics and Chemistry
382 Atmospheric Dynamics
383 Atmospheric Sciences, Other*
388 Environmental Sciences, General (see also 480, 528)
389 Environmental Sciences, Other*
398 Earth Sciences, General
399 Earth Sciences, Other*

ENGINEERING

400 Aeronautical & Astronautical
410 Agricultural
415 Biomedical
420 Civil
430 Chemical
435 Ceramic
437 Computer
440 Electrical
445 Electronics
450 Industrial
455 Nuclear
460 Engineering Mechanics
465 Engineering Physics
470 Mechanical
475 Metallurgy & Phys. Met. Engr.
476 Systems Design & Systems Science
478 Operations Research (see also 082)
479 Fuel Tech. & Petrol. Engr. (see also 395)
480 Sanitary & Environmental
486 Mining
497 Materials Science
498 Engineering, General
499 Engineering, Other*

AGRICULTURAL SCIENCES

500 Agronomy
501 Agricultural Economics
502 Animal Husbandry
503 Food Science & Technology
504 Fish & Wildlife
505 Forestry
506 Horticulture
507 Soils & Soil Science
510 Animal Science & Animal Nutrition
511 Phytopathology
518 Agriculture, General
519 Agriculture, Other*

MEDICAL SCIENCES

522 Public Health & Epidemiology
523 Veterinary Medicine
526 Nursing
527 Parasitology
528 Environmental Health
534 Pathology
536 Pharmacology
537 Pharmacy
538 Medical Sciences, General
539 Medical Sciences, Other*

BIOLOGICAL SCIENCES

540 Biochemistry
542 Biophysics
544 Biometrics & Biostatistics (see also 050, 670, 725, 727, 920)
545 Anatomy
546 Cytology
547 Embryology
548 Immunology
550 Botany
560 Ecology
562 Hydrobiology
564 Microbiology & Bacteriology
566 Physiology, Animal
567 Physiology, Plant
569 Zoology
570 Genetics
571 Entomology
572 Molecular Biology
576 Nutrition and/or Dietetics
578 Biological Sciences, General
579 Biological Sciences, Other*

PSYCHOLOGY

600 Clinical
610 Counseling & Guidance
620 Developmental & Gerontological
630 Educational
635 School Psychology
641 Experimental
642 Comparative
643 Physiological
650 Industrial & Personnel
660 Personality
670 Psychometrics (see also 050, 544, 725, 727, 920)
680 Social
698 Psychology, General
699 Psychology, Other*

SOCIAL SCIENCES

700 Anthropology
708 Communications*
710 Sociology
720 Economics (see also 501)
725 Econometrics (see also 050, 544, 670, 727, 920)
727 Statistics (see also 050, 544, 670, 725, 920)
740 Geography
745 Area Studies*
751 Political Science
752 Public Administration
755 International Relations
770 Urban & Reg. Planning
798 Social Sciences, General
799 Social Sciences, Other*

HUMANITIES

802 History & Criticism of Art
804 History, American
805 History, European
806 History, Other*
807 History & Philosophy of Science
808 American Studies
809 Theatre and Theatre Criticism
830 Music
831 Speech as a Dramatic Art (see also 885)
832 Archeology
833 Religion (see also 881)
834 Philosophy
835 Linguistics
836 Comparative Literature
878 Humanities, General
879 Humanities, Other*

LANGUAGES & LITERATURE

811 American
812 English
821 German
822 Russian
823 French
824 Spanish & Portuguese
826 Italian
827 Classical*
829 Other Languages*

EDUCATION

900 Foundations: Social & Philosoph.
910 Educational Psychology
908 Elementary Educ., General
909 Secondary Educ., General
918 Higher Education
919 Adult Educ. & Extension Educ.
920 Educ. Meas. & Stat.
929 Curriculum & Instruction
930 Educ. Admin. & Superv.
940 Guid., Couns., & Student Pers.
950 Special Education (Gifted, Handicapped, etc.)
960 Audio-Visual Media

TEACHING FIELDS

970 Agriculture Educ.
972 Art Educ.
974 Business Educ.
976 English Educ.
978 Foreign Languages Educ.
980 Home Economics Educ.
982 Industrial Arts Educ.
984 Mathematics Educ.
986 Music Educ.
988 Phys. Ed., Health, & Recreation
989 Reading Education
990 Science Educ.
992 Social Science Educ.
993 Speech Education
994 Vocational Educ.
996 Other Teaching Fields*

998 Education, General
999 Education, Other*

OTHER PROFESSIONAL FIELDS

881 Theology (see also 833)
882 Business Administration
883 Home Economics
884 Journalism
885 Speech & Hearing Sciences (see also 831)
886 Law & Jurisprudence
887 Social Work
891 Library & Archival Science
897 Professional Field, Other*

899 OTHER FIELDS*

* Identify the specific field in the space provided on the questionnaire.

CODE NUMBERS FOR FIELDS DISPLAYED IN TABLE 2

Physics & Astronomy (101-199)
Chemistry (200-299)
Earth Sciences (301-399)

Physical Sciences Subtotal (101-399)
Mathematics (000-060, 080-099)
Computer Sciences (079)
Engineering (400-499)

EMP Total (000-499)

Basic Medical Sciences (540-542, 545-548, 564-566, 572)
Other Biosciences (544, 550-562, 567-571, 576-579)

Biosciences Subtotal (540-579)
Medical Sciences (520-539)
Agricultural Sciences (500-519)

Life Sciences (500-579)

Psychology (600-699)
Economics and Econometrics (720, 725)
Anthropology & Sociology (700, 710)
Political Science, Public Administration, International Relations (751-755)
Other Social Sciences (708, 727-745, 770-799)

Social Sciences Total (600-799)

Total Sciences (000-799)

History (804-807)
English & American Language & Literature (811-812)
Foreign Languages & Literature (821-829)
Other Humanities (802, 808-809, 830-879)

Humanities Total (802-879)

Professional Fields (881-897)

Education (900-999)

Total Non-Sciences (802-897, 900-999)

Other or Unspecified (899)

TITLES OF DEGREES INCLUDED IN THE SURVEY OF EARNED DOCTORATES

DAS	Doctor of Applied Science
DArch	Doctor of Architecture
DA	Doctor of Arts
DBA	Doctor of Business Administration
JCD	Doctor of Canon Law
DCJ	Doctor of Criminal Justice
DCrim	Doctor of Criminology
EdD	Doctor of Education
DEng	Doctor of Engineering
DESc	Doctor of Engineering Science
ScDE	Doctor of Engineering Science
DEnv	Doctor of Environment
DED	Doctor of Environmental Deisgn
DFA	Doctor of Fine Arts
DF	Doctor of Forestry
DGS	Doctor of Geological Science
DHS	Doctor of Health and Safety
DHL	Doctor of Hebrew Literature
DHS	Doctor of Hebrew Studies
SJD	Doctor of Juridical Science
JSD	Doctor of Juristic Science
DLS	Doctor of Library Science
DMin or DM	Doctor of Ministry (except professional)
DM	Doctor of Music
DMA	Doctor of Musical Arts
DME	Doctor of Music Education
DML	Doctor of Modern Languages
DNSc	Doctor of Nursing Science
PhD	Doctor of Philosophy
DPE	Doctor of Physical Education
DPA	Doctor of Public Administration
DPH	Doctor of Public Health
DRec or DR	Doctor of Recreation
DRE	Doctor of Religious Education
DSM	Doctor of Sacred Music
STD	Doctor of Sacred Theology
DSc	Doctor of Science
DScH	Doctor of Science and Hygiene
DScD	Doctor of Science in Dentistry
LScD	Doctor of Science and Law
DScVM	Doctor of Science in Veterinary Medicine
DSSc	Doctor of Social Science
DSW	Doctor of Social Work
ThD	Doctor of Theology